

## VMware Deliverable Release Notes

This document does not apply to HPE Superdome servers. For information on HPE Superdome, see the following links:

[HPE Integrity Superdome X](#)  
[HPE Superdome Flex](#)

Information on HPE Synergy supported VMware ESXi OS releases, HPE ESXi Custom Images and HPE Synergy Custom SPPs is available at:

[OS Support Tool for HPE Synergy](#)

Information on HPE Synergy Software Releases is available at:

[HPE Synergy Software Releases - Overview](#)

Gen10 SPP 2025.11.00.00 Release Notes for VMware ESXi 8.0

- [BIOS - System ROM](#)
- [Driver - Lights-Out Management](#)
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BIOS - System ROM Top

ROM Flash Firmware Package - HPE Apollo 4200 Gen10/HPE ProLiant XL420 Gen10 (U39) Servers  
Version: 3.60\_08-06-2025 (**Recommended**)  
Filename: U39\_3.60\_08\_06\_2025.fwpkg

Important Note!

Important Notes:

The latest CA 2023 certificate has been included in System ROM version 3.40\_01-16-2025 and later. "Reset All Keys to Platform Defaults Setting" would be required to enable the CA 2023 certificate after upgrading the ROM version from 3.34\_09-30-2024 or earlier.

This version of the System ROM contains updates aligned with the Intel Purley IPU2025.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

Deliverable Name:

HPE Apollo 4200 Gen10/ProLiant XL420 Gen10 System ROM - U39

Release Version:

3.60\_08-06-2025

Last Recommended or Critical Revision:

3.60\_08-06-2025

Previous Revision:

3.50\_04-17-2025

Firmware Dependencies:

None

Enhancements/New Features:

None

Problems Fixed:

Addressed an issue where the system RBSU setting change might not take effect when the System ROM is being updated.

Known Issues:

None

Fixes

Important Notes:

This version of the System ROM contains updates aligned with the Intel Purley IPU2025.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

Firmware Dependencies:

None

Problems Fixed:

Addressed an issue where the system RBSU setting change might not take effect when the System ROM is being updated.

Known Issues:

None

ROM Flash Firmware Package - HPE Apollo 4510 Gen10/HPE ProLiant XL450 Gen10 (U40) Servers  
Version: 3.60\_08-06-2025 (**Recommended**)

**Important Note!**

**Important Notes:**

The latest CA 2023 certificate has been included in System ROM version 3.40\_01-16-2025 and later. "Reset All Keys to Platform Defaults Setting" would be required to enable the CA 2023 certificate after upgrading the ROM version from 3.34\_09-30-2024 or earlier.

This version of the System ROM contains updates aligned with the Intel Purley IPU2025.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Deliverable Name:**

HPE Apollo 4510 Gen10/HPE ProLiant XL450 Gen10 System ROM - U40

**Release Version:**

3.60\_08-06-2025

**Last Recommended or Critical Revision:**

3.60\_08-06-2025

**Previous Revision:**

3.50\_04-17-2025

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Addressed an issue where the system RBSU setting change might not take effect when the System ROM is being updated.

**Known Issues:**

None

**Fixes**

**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Purley IPU2025.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Firmware Dependencies:**

None

**Problems Fixed:**

Addressed an issue where the system RBSU setting change might not take effect when the System ROM is being updated.

**Known Issues:**

None

ROM Flash Firmware Package - HPE ProLiant DL160 Gen10/DL180 Gen10 (U31) Servers  
Version: 3.60\_08-06-2025 (**Recommended**)  
Filename: U31\_3.60\_08\_06\_2025.fwpkg

**Important Note!**

**Important Notes:**

The latest CA 2023 certificate has been included in System ROM version 3.40\_01-16-2025 and later. "Reset All Keys to Platform Defaults Setting" would be required to enable the CA 2023 certificate after upgrading the ROM version from 3.34\_09-30-2024 or earlier.

This version of the System ROM contains updates aligned with the Intel Purley IPU2025.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Deliverable Name:**

HPE ProLiant DL160 Gen10/DL180 Gen10 System ROM - U31

**Release Version:**

3.60\_08-06-2025

**Last Recommended or Critical Revision:**

3.60\_08-06-2025

**Previous Revision:**

3.50\_04-17-2025

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Addressed an issue where the system RBSU setting change might not take effect when the System ROM is being updated.

**Known Issues:**

None

**Fixes****Important Notes:**

This version of the System ROM contains updates aligned with the Intel Purley IPU2025.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Firmware Dependencies:**

None

**Problems Fixed:**

Addressed an issue where the system RBSU setting change might not take effect when the System ROM is being updated.

**Known Issues:**

None

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ROM Flash Firmware Package - HPE ProLiant DL20 Gen10 (U43) Servers

Version: 3.70\_08-08-2025 (**Recommended**)

Filename: U43\_3.70\_08\_08\_2025.fwpkg

**Important Note!****Important Notes:**

The latest CA 2023 certificate has been included in System ROM version 3.50\_01-16-2025 and later. "Reset All Keys to Platform Defaults Setting" would be required to enable the CA 2023 certificate after upgrading the ROM version from 3.40\_08-01-2024 or earlier.

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2025.3 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 05.01.05.103.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Deliverable Name:**

HPE DL20 Gen10 System ROM - U43

**Release Version:**

3.70\_08-08-2025

**Last Recommended or Critical Revision:**

3.70\_08-08-2025

**Previous Revision:**

3.60\_05-16-2025

**Firmware Dependencies:**

None

**Enhancements/New Features:**

This version is in compliance with IPU 2025.3 guidance.

**Problems Fixed:**

None

**Known Issues:**

None

**Enhancements****Important Notes:**

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2025.3 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 05.01.05.103.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Firmware Dependencies:**

None

**Enhancements/New Features:**

This version is in compliance with IPU 2025.3 guidance.

**Known Issues:**

None

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ROM Flash Firmware Package - HPE ProLiant DL20 Gen10 Plus Servers  
Version: 2.50\_08-06-2025 (**Recommended**)  
Filename: U60\_2.50\_08\_06\_2025.fwpkg

**Important Note!****Important Notes:**

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2025.3 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.708 (2.50\_07\_25\_2025).

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Deliverable Name:**

HPE DL20 Gen10 Plus System ROM - U60

**Release Version:**

2.50\_08-06-2025

**Last Recommended or Critical Revision:**

2.50\_08-06-2025

**Previous Revision:**

2.40\_05-16-2025

**Firmware Dependencies:**

None

**Enhancements/New Features:**

This version is in compliance with IPU 2025.3 guidance.

**Problems Fixed:**

None

**Known Issues:**

None

**Enhancements****Important Notes:**

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2025.3 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.708 (2.50\_07\_25\_2025).

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Firmware Dependencies:**

None

**Enhancements/New Features:**

This version is in compliance with IPU 2025.3 guidance.

**Known Issues:**

None

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ROM Flash Firmware Package - HPE ProLiant DL325 Gen10 (A41) Servers  
Version: 3.60\_09-05-2025 (**Recommended**)  
Filename: A41\_3.60\_09\_05\_2025.fwpkg

**Important Note!****Important Notes:**

The latest CA 2023 certificate has been included in System ROM version 3.40\_01\_16\_2025 and later. "Reset All Keys to Platform Defaults Setting" would be required to enable the CA 2023 certificate after upgrading the ROM version from 3.30\_10-04-2024 or earlier.

This revision of the System ROM includes AMD reference code RomePI 1.0.0.N for AMD 2nd Generation EPYC processors. This revision of the System ROM includes AMD reference code NaplesPI 1.0.0.R for AMD 1st Generation EPYC processors.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Deliverable Name:**

HPE ProLiant DL325 Gen10 System ROM - A41

**Release Version:**

3.60\_09-05-2025

**Last Recommended or Critical Revision:**

3.60\_09-05-2025

**Previous Revision:**

3.50\_03-21-2025

**Firmware Dependencies:**

None

**Enhancements/New Features:**

Updated the default Secure Boot dbx to mitigate CVE-2025-3052.

**Problems Fixed:**

Addressed an issue where changing BIOS settings via Redfish would fail if a BIOS update was performed during the same boot.

Remove Expired SUSE and VMware Certificates.

**Known Issues:**

None

**Fixes****Important Notes:**

This revision of the System ROM includes AMD reference code RomePI 1.0.0.N for AMD 2nd Generation EPYC processors. This revision of the System ROM includes AMD reference code NaplesPI 1.0.0.R for AMD 1st Generation EPYC processors.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Firmware Dependencies:**

None

**Problems Fixed:**

Addressed an issue where changing BIOS settings via Redfish would fail if a BIOS update was performed during the same boot.

Remove Expired SUSE and VMware Certificates.

**Known Issues:**

None

**Enhancements**

Updated the default Secure Boot dbx to mitigate CVE-2025-3052.

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ROM Flash Firmware Package - HPE ProLiant DL360 Gen10 (U32) Servers  
Version: 3.60\_08-06-2025 (**Recommended**)  
Filename: U32\_3.60\_08\_06\_2025.fwpkg

**Important Note!****Important Notes:**

The latest CA 2023 certificate has been included in System ROM version 3.40\_01-16-2025 and later. "Reset All Keys to Platform Defaults Setting" would be required to enable the CA 2023 certificate after upgrading the ROM version from 3.34\_09-30-2024 or earlier.

This version of the System ROM contains updates aligned with the Intel Purley IPU2025.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Deliverable Name:**

HPE ProLiant DL360 Gen10 System ROM - U32

**Release Version:**

3.60\_08-06-2025

**Last Recommended or Critical Revision:**

3.60\_08-06-2025

**Previous Revision:**

3.50\_04-17-2025

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Addressed an issue where the system RBSU setting change might not take effect when the System ROM is being updated.

**Known Issues:**

None

**Fixes**

**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Purley IPU2025.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Firmware Dependencies:**

None

**Problems Fixed:**

Addressed an issue where the system RBSU setting change might not take effect when the System ROM is being updated.

**Known Issues:**

None

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ROM Flash Firmware Package - HPE ProLiant DL380 Gen10 (U30) Servers  
Version: 3.60\_08-06-2025 (**Recommended**)  
Filename: U30\_3.60\_08\_06\_2025.fwpkg

**Important Note!**

**Important Notes:**

The latest CA 2023 certificate has been included in System ROM version 3.40\_01-16-2025 and later. "Reset All Keys to Platform Defaults Setting" would be required to enable the CA 2023 certificate after upgrading the ROM version from 3.34\_09-30-2024 or earlier.

This version of the System ROM contains updates aligned with the Intel Purley IPU2025.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Deliverable Name:**

HPE Gen10 DL380 System ROM - U30

**Release Version:**

3.60\_08-06-2025

**Last Recommended or Critical Revision:**

3.60\_08-06-2025

**Previous Revision:**

3.50\_04-17-2025

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Addressed an issue where the system RBSU setting change might not take effect when the System ROM is being updated.

**Known Issues:**

None

**Fixes**

**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Purley IPU2025.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Firmware Dependencies:**

None

**Problems Fixed:**

Addressed an issue where the system RBSU setting change might not take effect when the System ROM is being updated.

**Known Issues:**

None

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ROM Flash Firmware Package - HPE ProLiant DL385 Gen10 (A40) Servers

Version: 3.60\_09-05-2025 (**Recommended**)

Filename: A40\_3.60\_09\_05\_2025.fwpkg

**Important Note!**

**Important Notes:**

The latest CA 2023 certificate has been included in System ROM version 3.40\_01\_16\_2025 and later. "Reset All Keys to Platform Defaults Setting" would be required to enable the CA 2023 certificate after upgrading the ROM version from 3.30\_10-04-2024 or earlier.

This revision of the System ROM includes AMD reference code RomePI 1.0.0.N for AMD 2nd Generation EPYC processors. This revision of the System ROM includes AMD reference code NaplesPI 1.0.0.R for AMD 1st Generation EPYC processors.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Deliverable Name:**

HPE ProLiant DL385 Gen10 System ROM - A40

**Release Version:**

3.60\_09-05-2025

**Last Recommended or Critical Revision:**

3.60\_09-05-2025

**Previous Revision:**

3.50\_03-21-2025

**Firmware Dependencies:**

None

**Enhancements/New Features:**

Updated the default Secure Boot dbx to mitigate CVE-2025-3052.

**Problems Fixed:**

Addressed an issue where changing BIOS settings via Redfish would fail if a BIOS update was performed during the same boot.

Remove Expired SUSE and VMware Certificates.

**Known Issues:**

None

**Fixes**

**Important Notes:**

This revision of the System ROM includes AMD reference code RomePI 1.0.0.N for AMD 2nd Generation EPYC processors. This revision of the System ROM includes AMD reference code NaplesPI 1.0.0.R for AMD 1st Generation EPYC processors.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Firmware Dependencies:**

None

**Problems Fixed:**

Addressed an issue where changing BIOS settings via Redfish would fail if a BIOS update was performed during the same boot.

Remove Expired SUSE and VMware Certificates.

**Known Issues:**

None

**Enhancements**

Updated the default Secure Boot dbx to mitigate CVE-2025-3052.

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ROM Flash Firmware Package - HPE ProLiant DL560 Gen10/DL580 Gen10 (U34) Servers

Version: 3.60\_08-06-2025 (**Recommended**)

Filename: U34\_3.60\_08\_06\_2025.fwpkg

**Important Note!**

**Important Notes:**

The latest CA 2023 certificate has been included in System ROM version 3.40\_01-16-2025 and later. "Reset All Keys to Platform Defaults Setting" would be required to enable the CA 2023 certificate after upgrading the ROM version from 3.34\_09-30-2024 or earlier.

This version of the System ROM contains updates aligned with the Intel Purley IPU2025.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Deliverable Name:**

HPE ProLiant DL560 Gen10/DL580 Gen10 System ROM - U34

**Release Version:**

3.60\_08-06-2025

**Last Recommended or Critical Revision:**

3.60\_08-06-2025

**Previous Revision:**

3.50\_04-17-2025

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Addressed an issue where the system RBSU setting change might not take effect when the System ROM is being updated.

**Known Issues:**

None

**Fixes**

**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Purley IPU2025.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Firmware Dependencies:**

None

**Problems Fixed:**

Addressed an issue where the system RBSU setting change might not take effect when the System ROM is being updated.

**Known Issues:**

None

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ROM Flash Firmware Package - HPE ProLiant MicroServer Gen10 Plus v2 (U64) Servers  
Version: 2.50\_08-06-2025 (**Recommended**)  
Filename: U64\_2.50\_08\_06\_2025.fwpkg

**Important Note!**

**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2025.3 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.708 (2.50\_07\_25\_2025).

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Deliverable Name:**

HPE ProLiant MicroServer Gen10 Plus v2 System ROM - U64

**Release Version:**

2.50\_08-06-2025

**Last Recommended or Critical Revision:**

2.50\_08-06-2025

**Previous Revision:**

2.40\_05-16-2025

**Firmware Dependencies:**

None

**Enhancements/New Features:**

This version is in compliance with IPU 2025.3 guidance.

**Problems Fixed:**

None

**Known Issues:**

None

**Enhancements****Important Notes:**

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2025.3 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.708 (2.50\_07\_25\_2025).

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Firmware Dependencies:**

None

**Enhancements/New Features:**

This version is in compliance with IPU 2025.3 guidance.

**Known Issues:**

None

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ROM Flash Firmware Package - HPE ProLiant ML110 Gen10 (U33) Servers  
Version: 3.60\_08-06-2025 (**Recommended**)  
Filename: U33\_3.60\_08\_06\_2025.fwpkg

**Important Note!****Important Notes:**

The latest CA 2023 certificate has been included in System ROM version 3.40\_01-16-2025 and later. "Reset All Keys to Platform Defaults Setting" would be required to enable the CA 2023 certificate after upgrading the ROM version from 3.34\_09-30-2024 or earlier.

This version of the System ROM contains updates aligned with the Intel Purley IPU2025.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Deliverable Name:**

HPE ProLiant ML110 Gen10 System ROM - U33

**Release Version:**

3.60\_08-06-2025

**Last Recommended or Critical Revision:**

3.60\_08-06-2025

**Previous Revision:**

3.50\_04-17-2025

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Addressed an issue where the system RBSU setting change might not take effect when the System ROM is being updated.

**Known Issues:**

None

**Fixes****Important Notes:**

This version of the System ROM contains updates aligned with the Intel Purley IPU2025.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Firmware Dependencies:**

None

**Problems Fixed:**

Addressed an issue where the system RBSU setting change might not take effect when the System ROM is being updated.

**Known Issues:**

None

**Important Note!**

**Important Notes:**

The latest CA 2023 certificate has been included in System ROM version 3.50\_01-16-2025 and later. "Reset All Keys to Platform Defaults Setting" would be required to enable the CA 2023 certificate after upgrading the ROM version from 3.40\_08-01-2024 or earlier.

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2025.3 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 05.01.05.103.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Deliverable Name:**

HPE ProLiant ML30 Gen10 System ROM - U44

**Release Version:**

3.70\_08-08-2025

**Last Recommended or Critical Revision:**

3.70\_08-08-2025

**Previous Revision:**

3.60\_05-16-2025

**Firmware Dependencies:**

None

**Enhancements/New Features:**

This version is in compliance with IPU 2025.3 guidance.

**Problems Fixed:**

None

**Known Issues:**

None

**Enhancements**

**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2025.3 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 05.01.05.103.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Firmware Dependencies:**

None

**Enhancements/New Features:**

This version is in compliance with IPU 2025.3 guidance.

**Known Issues:**

None

**Important Note!**

**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2025.3 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.708 (2.50\_07\_25\_2025).

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Deliverable Name:**

HPE ProLiant ML30 Gen10 Plus System ROM - U61

**Release Version:**

2.50\_08-06-2025

**Last Recommended or Critical Revision:**

2.50\_08-06-2025

**Previous Revision:**

2.40\_05-16-2025

**Firmware Dependencies:**

None

**Enhancements/New Features:**

This version is in compliance with IPU 2025.3 guidance.

**Problems Fixed:**

None

**Known Issues:**

None

**Enhancements**

**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2025.3 guidance. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.00.03.708 (2.50\_07\_25\_2025).

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Firmware Dependencies:**

None

**Enhancements/New Features:**

This version is in compliance with IPU 2025.3 guidance.

**Known Issues:**

None

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ROM Flash Firmware Package - HPE ProLiant ML350 Gen10 (U41) Servers  
Version: 3.60\_08-06-2025 (**Recommended**)  
Filename: U41\_3.60\_08\_06\_2025.fwpkg

**Important Note!**

**Important Notes:**

The latest CA 2023 certificate has been included in System ROM version 3.40\_01-16-2025 and later. "Reset All Keys to Platform Defaults Setting" would be required to enable the CA 2023 certificate after upgrading the ROM version from 3.34\_09-30-2024 or earlier.

This version of the System ROM contains updates aligned with the Intel Purley IPU2025.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Deliverable Name:**

HPE ProLiant ML350 Gen10 System ROM - U41

**Release Version:**

3.60\_08-06-2025

**Last Recommended or Critical Revision:**

3.60\_08-06-2025

**Previous Revision:**

3.50\_04-17-2025

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Addressed an issue where the system RBSU setting change might not take effect when the System ROM is being updated.

**Known Issues:**

None

**Fixes**

**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Purley IPU2025.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.01.05.201.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Firmware Dependencies:**

None

**Problems Fixed:**

Addressed an issue where the system RBSU setting change might not take effect when the System ROM is being updated.

**Known Issues:**

None

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ROM Flash Universal Firmware Package - HPE ProLiant DL325/DL325 v2/DL345 Gen10 Plus (A43) Servers

Version: 3.90\_10-03-2025 (**Recommended**)

Filename: A43\_3.90\_10\_03\_2025.fwpkg

**Important Note!**

**Important Notes:**

This revision of the System ROM includes AMD reference code MilanPI 1.0.0.H for AMD 3rd Generation EPYC processors. This revision of the System ROM includes AMD reference code RomePI 1.0.0.N for AMD 2nd Generation EPYC processors.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Deliverable Name:**

HPE ProLiant DL325/DL325 v2/DL345 Gen10 Plus System ROM - A43

**Release Version:**

3.90\_10-03-2025

**Last Recommended or Critical Revision:**

3.90\_10-03-2025

**Previous Revision:**

3.80\_09-05-2025

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Addressed an issue where the SEV/SNP feature would not function correctly on the DL325 Gen10 Plus server.

**Known Issues:**

None

**Fixes**

**Important Notes:**

This revision of the System ROM includes AMD reference code MilanPI 1.0.0.H for AMD 3rd Generation EPYC processors. This revision of the System ROM includes AMD reference code RomePI 1.0.0.N for AMD 2nd Generation EPYC processors.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Firmware Dependencies:**

None

**Problems Fixed:**

Addressed an issue where the SEV/SNP feature would not function correctly on the DL325 Gen10 Plus server.

**Known Issues:**

None

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ROM Flash Universal Firmware Package - HPE ProLiant DL360/DL380 Gen10 Plus (U46) Servers

Version: 2.50\_08-06-2025 (**Recommended**)

Filename: U46\_2.50\_08\_06\_2025.fwpkg

**Important Note!**

**Important Notes:**

This version of the System ROM contains updates aligned with the Intel Whitley IPU2025.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.04.04.802 (2.50\_07\_24\_2025).

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Deliverable Name:**

HPE DL360 Gen10 Plus/DL380 Gen10 Plus System ROM - U46

**Release Version:**

2.50\_08-06-2025

**Last Recommended or Critical Revision:**

2.50\_08-06-2025

**Previous Revision:**

2.42\_06-13-2025

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Addressed an issue where the system RBSU setting change might not take effect when the System ROM is being updated.

**Known Issues:**

None

**Fixes****Important Notes:**

This version of the System ROM contains updates aligned with the Intel Whitley IPU2025.3 update. This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 04.04.04.802 (2.50\_07\_24\_2025).

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Firmware Dependencies:**

None

**Problems Fixed:**

Addressed an issue where the system RBSU setting change might not take effect when the System ROM is being updated.

**Known Issues:**

None

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ROM Flash Universal Firmware Package - HPE ProLiant DL365/DL385/DL385 v2 Gen10 Plus (A42) Servers

Version: 3.90\_10-03-2025 (**Recommended**)

Filename: A42\_3.90\_10\_03\_2025.fwpkg

**Important Note!****Important Notes:**

This revision of the System ROM includes AMD reference code MilanPI 1.0.0.H for AMD 3rd Generation EPYC processors. This revision of the System ROM includes AMD reference code RomePI 1.0.0.N for AMD 2nd Generation EPYC processors.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Deliverable Name:**

HPE DL365 Gen10 Plus/DL385 Gen10 Plus/DL385 v2 Gen10 Plus System ROM - A42

**Release Version:**

3.90\_10-03-2025

**Last Recommended or Critical Revision:**

3.90\_10-03-2025

**Previous Revision:**

3.80\_09-05-2025

**Firmware Dependencies:**

None

**Enhancements/New Features:**

None

**Problems Fixed:**

Addressed an issue where the SEV/SNP feature would not function correctly on the DL325 Gen10 Plus server.

**Known Issues:**

None

**Fixes**

**Important Notes:**

This revision of the System ROM includes AMD reference code MilanPI 1.0.0.H for AMD 3rd Generation EPYC processors. This revision of the System ROM includes AMD reference code RomePI 1.0.0.N for AMD 2nd Generation EPYC processors.

Details about reported security vulnerabilities and their mitigation can be found at the following link [Security Bulletin Library | HPE Support](#).

**Firmware Dependencies:**

None

**Problems Fixed:**

Addressed an issue where the SEV/SNP feature would not function correctly on the DL325 Gen10 Plus server.

**Known Issues:**

None

**Driver - Lights-Out Management**

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HPE iLO Native Driver for ESXi 8.0 and ESXi 9.0  
Version: 10.9.1 **(Recommended)**  
Filename: ilo-driver\_800.10.9.1.4-1OEM.800.1.0.20613240.zip

**Fixes**

Implement MSI interrupt in the ilo driver to fix PSOD due to interrupt storm and to fix snmpwalk delays.

**Driver - Network**

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HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0  
Version: 2025.11.00 **(Recommended)**  
Filename: cp068542.compsig; cp068542.zip

**Important Note!**

- o This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.
- o HPE recommends the *HPE Broadcom NetXtreme-E Firmware Version*, 235.1.160000 or later, for use with this driver.

**Fixes**

This product fixes issue where the RoCE driver updated the RoCE priority from the Queue Pair and Address Handle context by suppressing that value and not propagating it to the L2 driver.

**Enhancements**

This product enhances the completion queue design to support two completion queues for each Notification Queue

**Supported Devices and Features**

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- o HPE Ethernet 10Gb 2-port 535T Adapter
- o HPE Ethernet 10Gb 2-port 537SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter
- o HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
- o HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
- o HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter
- o HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter
- o HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter
- o HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter
- o Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- o Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE
- o Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 Adapter for HPE
- o Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 OCP3 Adapter for HPE

HPE Intel i40en Driver for VMware vSphere 8.0  
Version: 2025.11.00 **(Recommended)**  
Filename: cp068940.compsig; cp068940.zip

**Important Note!**

This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.

HPE recommends the firmware provided in *HPE Intel Online Firmware Upgrade Utility for VMware*, version 3.25.0 or later, for use with this driver.

## **Enhancements**

- o This product added Requested FEC display in vmkernel.log.
- o This product added info message in vmkernel.log.

## **Supported Devices and Features**

This product supports the following network adapters:

- o HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter
- o HPE Ethernet 1Gb 2-port 368i Adapter
- o HPE Ethernet 1Gb 4-port 369i Adapter
- o HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 562SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 563i Adapter
- o HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter
- o HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter
- o HPE Ethernet 10Gb 2-port 568i Adapter
- o HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter

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HPE Intel igbn Driver for VMware vSphere 8.0

Version: 2025.05.00 **(Recommended)**

Filename: cp066052.compsig; cp066052.zip

## **Important Note!**

This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibstest.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.

HPE recommends the firmware provided in *HPE Intel Online Firmware Upgrade Utility for VMware*, version 3.26.1 or later, for use with this driver.

## **Enhancements**

This product enhanced the compatibility with firmware.

## **Supported Devices and Features**

These drivers support the following network adapters:

- o HPE Ethernet 1Gb 2-port 361T Adapter
- o HPE Ethernet 1Gb 2-port 361i Adapter
- o HPE Ethernet 1Gb 2-port 363i Adapter
- o HPE Ethernet 1Gb 4-port 366FLR Adapter
- o HPE Ethernet 1Gb 4-port 366T Adapter
- o HPE Ethernet 1Gb 4-port 366i Adapter
- o HPE Ethernet 1Gb 4-port 366i Communication Board
- o Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE
- o Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE
- o Intel(R) I350 Gigabit Network Connection

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HPE Intel ixgben Driver for VMware vSphere 8.0

Version: 2025.11.00 **(Recommended)**

Filename: cp068938.compsig; cp068938.zip

## **Important Note!**

This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibstest.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.

- o HPE recommends the firmware provided in *HPE Intel Online Firmware Upgrade Utility for VMware*, version 3.27.0 or later, for use with this driver.
- o HPE recommends the firmware provided in *Intel Firmware Package For E610-IT4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter*, version 1.22 or later, for use with this driver

## **Enhancements**

This product enhanced the compatibility with firmware.

## **Supported Devices and Features**

These drivers support the following network adapters:

- o HPE Ethernet 10Gb 2-port 560SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 561T Adapter
- o HPE Ethernet 10Gb 2-port 561FLR-T Adapter
- o HPE Ethernet 10Gb 2-port 562T Adapter
- o HPE Ethernet 10Gb 2-port 562FLR-T Adapter
- o Intel E610-IT4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE

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HPE QLogic FastLinQ 10/25/50 GbE Multifunction Driver for VMware vSphere 8.0

Version: 2025.09.00 **(Recommended)**

Filename: cp067853.compsig; cp067853.zip

## **Important Note!**

This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.

HPE recommends the firmware provided as below for use with these drivers,

- o HPE QLogic FastLinQ Firmware Package for Arrowhead adapters, version 8.65.23 or later.
- o HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware, version 4.20.0 or later.

## **Fixes**

This product fixes an issue where the High EnsNetWorlds CPU usage occurs for ens-interrupt mode with no network traffic.

## **Supported Devices and Features**

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 521T Adapter
- o HPE Ethernet 10Gb 2-port 524SFP+ Adapter
- o HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter
- o HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter
- o HPE StoreFabric CN1200R-T Converged Network Adapter
- o HPE StoreFabric CN1300R Converged Network Adapter
- o HPE Ethernet 10/25Gb 2-port SFP28 QL41232HQCUC OCP3 Adapter
- o HPE Ethernet 10/25Gb 2-port SFP28 QL41232HLCU Adapter
- o HPE Ethernet 10Gb 4-port SFP+ QL41134HLCU Adapter
- o HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter
- o HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ QL41132HQCUC OCP3 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ QL41132HLCU Adapter

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HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 8.0

Version: 2025.03.00 **(Recommended)**

Filename: cp064345.compsig; cp064345.zip

## **Important Note!**

This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.

HPE recommends the firmware provided in *HPE QLogic NX2 Online Firmware Upgrade Utility for VMware*, version 1.37.0 or later, for use with this driver.

## **Fixes**

- o This product corrects an issue which fix TSO (TCP Segmentation Offload) issue when single segment is larger than pkt length.
- o This product corrects an issue which PSOD while freeing DMA during 'esxcli qlfastlinq qcc' command execution.

## **Supported Devices and Features**

These drivers support the following network adapters:

- o HPE Ethernet 10Gb 2-port 530T Adapter
- o HPE Ethernet 10Gb 2-port 530SFP+ Adapter
- o HPE FlexFabric 10Gb 2-port 533FLR-T Adapter
- o HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter
- o HPE FlexFabric 10Gb 4-port 536FLR-T Adapter

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Intel icen Driver for VMware vSphere 8.0

Version: 2025.11.00 **(Recommended)**

Filename: cp067478.compsig; cp067478.zip

## **Important Note!**

- o This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.
- o HPE recommends the firmware provided in *Intel Firmware Package For E810 Ethernet Adapter*, version 4.90 or later, for use with these drivers.

## **Fixes**

This product fixed the failed while setting LFC for PF.

## **Supported Devices and Features**

This product supports the following network adapters:

- o Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- o Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE
- o Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- o Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE
- o Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE
- o Intel E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE
- o Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

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net-mst kernel module driver component for VMware ESXi 8.0 Update 3

Version: 2025.03.17 **(Recommended)**

Filename: cp052054.compsig; cp052054.zip

### Important Note!

This component is intended to be used by HPE applications. It is a zip that contains the same driver deliverable available from the HPE vibsddepot.hpe.com webpage, plus an HPE specific CPXXXX.xml file.

### Prerequisites

NA

### Enhancements

NMST version 4.31.0.150

This version is supported on VMware ESXi 8.0 Update 3 only.

### Supported Devices and Features

HPE Part Number	Device Name	PSID
764282-B21	HPE InfiniBand QDR/Ethernet 10Gb 2-port 544+M Adapter	HP_1350110023
764283-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+M Adapter	HP_1360110017
764284-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	HP_1370110017
P24837-B21	HPE Ethernet 10/25Gb 2-port 642SFP28 Adapter	HPE0000000054
P11338-B21	HPE Ethernet 10Gb 2-port 548SFP+ Adapter	HP_1200111023
764285-B21	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	HP_1380110017
764286-B21	HPE InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter	HP_1390110023
825110-B21	HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	HP_2180110032
825111-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	HP_2190110032
872726-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	HPE0000000009
879482-B21	HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter	HPE0000000022
868779-B21	HPE Synergy 6410C 25/50Gb Ethernet Adapter	HPE0000000006
779793-B21	HPE Ethernet 10Gb 2-port 546SFP+ Adapter	HP_1200111023
779799-B21	HPE Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	HP_2240110004
817749-B21	HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter	HP_2690110034
817753-B21	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	HP_2420110034
P21927-B21	HPE Ethernet 100Gb 2-port QSFP28 MCX516A-CCHT Adapter	MT_00000000417
P10112-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX562A-ACAI OCP3 Adapter	MT_00000000241
P13188-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX512F-ACHT Adapter	MT_00000000416
P11341-B21	HPE Ethernet 10Gb 2-port SFP+ MCX4621A-ACAB OCP3 Adapter	MT_00000000238
P21930-B21	HPE Ethernet 10Gb 2-port SFP+ MCX4121A-XCHT Adapter	MT_00000000414
874253-B21	HPE Ethernet 100Gb 1-port 842QSFP28 Adapter	HPE0000000014
P25960-B21	HPE Ethernet 100Gb 2-Port QSFP56 MCX623106AS-CDAT Adapter	MT_00000000437
P06154-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port 940QSFP56 x16 Adapter	HPE00000000034
P06250-B21	HPE InfiniBand HDR100/Ethernet 100Gb 1-port 940QSFP56 x16 Adapter	HPE00000000035
P06251-B21	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	HPE00000000036
P23664-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port MCX653105A-HDAT QSFP56 x16 Adapter	MT_00000000451
P23665-B21	HPE InfiniBand HDR100/Ethernet 100Gb 1-port MCX653105A-ECAT QSFP56 x16 Adapter	MT_00000000452
P23666-B21	HPE InfiniBand HDR100/Ethernet 100Gb 2-port MCX653106A-ECAT QSFP56 x16 Adapter	MT_00000000453
P10180-B21	Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE	MT_00000000435
P31246-B21	HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter	MT_00000000591
P31323-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter	MT_00000000592
P31348-B21	HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter	MT_00000000593
P31324-B21	HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter	MT_00000000594
P42041-B21	Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	MT_00000000551
P42044-B21	Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	MT_00000000575

### Driver - Storage Controller

HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 8.0

Version: 2025.09.01 (**Recommended**)

Filename: cp067936.compsig; cp067936.zip

### Important Note!

- o Actual Version is 7.732.04.00

### Fixes

- o Fix a00145710en\_us: HPE MR Gen11 and Gen10 Plus Storage Controllers - Purple Screen of Death (PSOD) May Be Observed When Updating Controller Firmware Via Service Pack for ProLiant (SPP) in Remote Deployment Mode With a VMware ESXi OS

HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 8.0 (Driver Component).  
Version: 2025.10.01 **(Recommended)**  
Filename: cp067564.compsig; cp067564.zip

#### **Important Note!**

- o Actual ESXi8.0 driver version is 80.4862.0.104
- o HPE Service Pack for ProLiant (SPP) provides a fully qualified recipe for specific firmware and drivers released within the same cycle, making it the primary recommended choice.
- o It is strongly recommended to use controller firmware version 7.81 for SR SAS/SATA controllers and firmware version 03.01.41.032 for SR tri-mode controllers, along with Windows driver version 1016.24.0.1002, Linux driver version 2.1.36-026, and VMware ESXi driver version 4862.0.104, as this combination has been fully qualified.

#### **Fixes**

- o Fixed PSOD indicates a divide-by-zero happened.
- o Fixed an issue where the driver's controller structure field was too small for the full ASCII firmware version.
- o Fixed an issue where a message from a periodic check on the controller heartbeat appeared as a system error instead of an informational message.
- o Fixed an issue where firmware versioning information was incorrect or blank on some of the controllers.
- o Fixed an issue where in a specific scenario, the device removal handler attempts to remove a device that has already been removed by the normal device discovery flow.

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#### **Firmware - Network**

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Broadcom Firmware Package for BCM5741x adapters  
Version: 235.1.164.14 **(Recommended)**  
Filename: bcm235.1.164.14.fwpkg; bcm235.1.164.14.json

#### **Important Note!**

For Firmware installation, there is no OS and drivers dependency.  
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 235.1.122.0 or later
- o HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-235.1.154.0 or later
- o HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

#### **Fixes**

- o This product fixes the issue where the firmware version details failed to update and the card showed as not operational after upgrading BCM5741x adapters
- o This product fixes the issue where failed to detect a 10GBASE-LR SFP+ causing incorrect defaults and a link failure.
- o This product fixes the issue where iLO BMC shared IP on OCP NIC, link flap occurred during OS reboot.

#### **Enhancements**

This product enhancement enables a self-shutdown feature to prevent overheating when certain monitoring features are disabled.  
It applies only to newer hardware that originally shipped with firmware version 223.1.135.7 or higher and is not enabled on earlier revisions.

#### **Supported Devices and Features**

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
- o HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter
- o HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter
- o HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter
- o HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter

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Broadcom Firmware Package for BCM5750x adapters  
Version: 235.1.160.0 **(Recommended)**  
Filename: bcm235.1.160.0\_Thor.fwpkg; bcm235.1.160.0\_Thor.json

#### **Important Note!**

For Firmware installation, there is no OS and drivers dependency.  
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 235.1.122.0 or later
- o HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.3-235.1.154.0 or later
- o HPE Broadcom NetXtreme-E Drivers for VMware, version 2025.11.00 or later

#### **Fixes**

This product fixes the issue where, in breakout mode, a cable remove or insert failed to bring the link up because the module did not exit the DPDeactivated (Data Path Deactivated) state in time.

#### **Enhancements**

This product enhances the handling of link status during D0 to D3 power domain transition.

#### **Supported Devices and Features**

This product supports the following network adapters:

- o Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- o Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

Broadcom NX1 Online Firmware Upgrade Utility for VMware  
Version: 1.43.0 (**Recommended**)  
Filename: CP069006.compsig; CP069006.zip

#### **Important Note!**

This software package contains combo image v20.35.41 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version
BCM 5719 1GbE 4p BASE-T Adptr	1.64	21.6.4	1.5.65	21.6.92
BCM 5719 1GbE 4p BASE-T OCP3 Adptr	1.64	21.6.4	1.5.65	21.6.92
BCM 5719 1GbE 4p BASE-T LOM Adptr	1.64	21.6.4	1.5.65	21.6.92
BCM 5720 1GbE 2p BASE-T LOM Adptr	1.43	21.6.4	1.5.65	21.6.92

#### **Prerequisites**

This product requires the appropriate driver for your device and operating system to be installed before the firmware is updated.

#### **Fixes**

- o This product fixes the issue where unique serial number in VPD (Vital Product Data) will be altered to a dummy serial number.
- o This product fixes the issue where Failing to Obtain iLO shared NIC DHCP IP and MCTP EID Missing during Reboot.
- o This product fixes the issue where PCI Temperature sensor might be missing intermittently causing Increase in Fan Speed

#### **Supported Devices and Features**

This product supports the following network adapters:

- o Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE
- o Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE
- o Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE
- o Broadcom BCM5719 Ethernet 1Gb 4-port Base-T LOM Adapter for HPE

HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware  
Version: 226.1.107000 (B) (**Recommended**)  
Filename: CP065662.compsig; CP065662.zip

#### **Important Note!**

HPE recommends *HPE Broadcom NetXtreme-E Drivers for VMware*, versions 2023.09.00 or later, for use with this firmware.

This software package contains NVM Image version 226.1.107000 with the following firmware versions:

NIC	Bootcode Version	NCSI Version	MBA Version	UEFI Version	RoCE Version
HPE Ethernet 10Gb 2-port 535FLR-T Adapter	226.0.145.0	226.0.145.0	226.0.135.0	226.0.135.0	226.0.145.0
HPE Ethernet 10Gb 2-port 535T Adapter					
HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter					
HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter					
HPE Ethernet 10Gb 2-port 537SFP+ Adapter					
HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter					

#### **Prerequisites**

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

#### **Fixes**

- o This product addressed the NC-SI passthrough algorithm for some FRU-reading commands from platform side.
- o This product addressed the packet forwarding rule while receiving packet which is bigger than 9600 jumbo size.
- o This product addressed the link failure under FreeBSD OS after changing link speed.
- o This product addressed the failure of bringing up VFs of SRIOV when doing on and off switch.
- o This product addressed adapter not responsive when work under heavy loading with 128 VMs.
- o The product addressed status reporting of PLDM sensor monitoring with BMC.
- o This product addressed the link-flap after link down or warm boot.

#### **Supported Devices and Features**

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- o HPE Ethernet 10Gb 2-port 535T Adapter

- o HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter
- o HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter
- o HPE Ethernet 10Gb 2-port 537SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter

HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware  
Version: 226.1.107.0 (B) **(Recommended)**  
Filename: CP065663.compsig; CP065663.zip

**Important Note!**

HPE recommends *HPE Broadcom NetXtreme-E Drivers for VMware*, versions 2023.09.00 or later, for use with this firmware.

This software package contains NVM Image version 226.1.107000 with the following firmware versions:

NIC	Bootcode Version	NCSI Version	MBA Version	UEFI Version	RoCE Version
HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter	226.0.145.0	226.0.145.0	226.0.135.0	226.0.135.0	226.0.145.0
HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter					
HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter					
HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter					
HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter					
HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter					
HPE Ethernet 10/25Gb 4-port SFP28 BCM57504 Adapter					
HPE Ethernet 10/25Gb 4-port SFP28 BCM57504 OCP3 Adapter					

**Prerequisites**

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

**Fixes**

- o This product addressed device lost symptom after continuously ungraceful restart on BCM57414 OCP3 adapter.
- o This product addressed some RDE pattern format for some LLDP properties.
- o This product addressed the NC-SI passthrough with BMC when device is under idle mode.
- o This product addressed new mechanism for loading factory default.

**Enhancements**

- o This product enhanced the device self-diagnostic matrix and MAC verification.
- o This product enhanced the link-speed calculation for internal variable.

**Supported Devices and Features**

This product supports the following network adapters:

- o HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 OCP3 Adapter
- o HPE Ethernet 10Gb 2-port BaseT BCM57416 Adapter
- o HPE Ethernet 10Gb 2-port BaseT BCM57416 OCP3 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ BCM57412 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ BCM57412 OCP3 Adapter
- o HPE Ethernet 10/25Gb 2-port SFP28 BCM57414 Adapter
- o Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- o Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

HPE Broadcom NetXtreme-E Online Firmware Upgrade Utility for VMware  
Version: 5.27.0 **(Recommended)**  
Filename: CP068546.compsig; CP068546.zip

**Important Note!**

HPE recommends *HPE Broadcom NetXtreme-E Drivers for VMware*, versions 2025.11.00 or later, for use with this firmware.

This software package contains NVM Image version 235.1.160000 with the following firmware versions:

NIC	Bootcode Version	NCSI Version	MBA Version	UEFI Version	RoCE Version
HPE Ethernet 10Gb 2-port 535FLR-T Adapter	235.1.157.0	235.1.157.0	235.1.147.0	235.1.147.0	235.1.157.0
HPE Ethernet 10Gb 2-port 535T Adapter					
HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter					
HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter					
HPE Ethernet 10Gb 2-port 537SFP+ Adapter					

**Prerequisites**

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

**Fixes**

- o This product fixes the issue where the firmware version details failed to update and the card showed as not operational after upgrading BCM5741x adapters
- o This product fixes the issue where failed to detect a 10GBASE-LR SFP+ causing incorrect defaults and a link failure.
- o This product fixes the issue where iLO BMC shared IP on OCP NIC, link flap occurred during OS reboot.

**Enhancements**

This product enhancement enables a self-shutdown feature to prevent overheating when certain monitoring features are disabled. It applies only to newer hardware that originally shipped with firmware version 223.1.135.7 or higher and is not enabled on earlier revisions.

**Supported Devices and Features**

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 537SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter
- o HPE Ethernet 10Gb 2-port 535T Adapter
- o HPE Ethernet 10Gb 2-port 535FLR-T Adapter
- o HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter
- o HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter

HPE Broadcom NX1 Online Firmware Upgrade Utility VMware for HPE ProLiant Gen10 server series Only.

Version: 1.43.0 (**Recommended**)

Filename: CP069010.compsig; CP069010.zip

**Important Note!**

- o **This component ONLY support HPE ProLiant Gen10 server series.**

This software package contains combo image v20.35.41 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version
HPE Ethernet 1Gb 2-port 330i Adapter (22BD)	2.10	21.6.4	1.5.65	21.6.92
HPE Ethernet 1Gb 4-port 331i Adapter (22BE) HPE Ethernet 1Gb 4-port 331FLR Adapter HPE Ethernet 1Gb 4-port 331T Adapter	1.64	21.6.4	1.5.65	21.6.92
HPE Ethernet 1Gb 2-port 332i Adapter (22E8) HPE Ethernet 1Gb 2-port 332T Adapter	1.43	21.6.4	1.5.65	21.6.92

For previous firmware versions prior to v20.19.51, please refer to the link : <https://www.hpe.com/global/swpublishing/MTX-4f19da2bceff4b73a31531d71e>

**Prerequisites**

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

**Fixes**

- o This product fixes the issue where unique serial number in VPD (Vital Product Data) will be altered to a dummy serial number
- o This product fixes the issue where Failing to Obtain iLO shared NIC DHCP IP and MCTP EID Missing during Reboot.
- o This product fixes the issue where PCI Temperature sensor might be missing intermittently causing Increase in Fan Speed

**Supported Devices and Features**

This product supports the following network adapters:

- o HPE Ethernet 1Gb 2-port 330i Adapter (22BD)
- o HPE Ethernet 1Gb 4-port 331i Adapter (22BE)
- o HPE Ethernet 1Gb 4-port 331FLR Adapter
- o HPE Ethernet 1Gb 4-port 331T Adapter
- o HPE Ethernet 1Gb 2-port 332i Adapter (22E8)
- o HPE Ethernet 1Gb 2-port 332T Adapter

HPE Intel Online Firmware Upgrade Utility VMware for HPE ProLiant Gen9 and Gen10 server series Only.

Version: 3.28.0 (**Recommended**)

Filename: CP068726.compsig; CP068726.zip

**Important Note!**

- o This software package contains the following firmware versions for the below listed supported network adapters:

NIC	EEPROM/NVM Version	OROM Version	Single NVM Version
HPE Ethernet 1Gb 2-port 361i Adapter	8000119A	1.3865.0	N/A
HPE Ethernet 1Gb 2-port 361T Adapter	80001147	1.3865.0	N/A
HPE Ethernet 1Gb 4-port 366FLR Adapter	800011A1	1.3865.0	N/A

HPE Ethernet 1Gb 4-port 366T Adapter	800011F1	1.3865.0	N/A
HPE Ethernet 1Gb 2-port 368i Adapter	80003AC5	1.3865.0	N/A
HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter	80003AC2	1.3865.0	N/A
HPE Ethernet 1Gb 4-port 369i Adapter	80003AC3	1.3865.0	N/A
HPE Ethernet 10Gb 2-port 568i Adapter	80003AC4	1.3865.0	N/A
HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter	80003AC2	1.3865.0	N/A
HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter	80003AC2	1.3865.0	N/A
HPE Ethernet 10Gb 2-port 563i Adapter	800035C0	1.1375.0	N/A
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	8000F231	1.3865.0	11.1.7
HPE Ethernet 10Gb 2-port 562FLR-T Adapter	800016F1	1.3865.0	10.55.3
HPE Ethernet 10Gb 2-port 562SFP+ Adapter	8000F232	1.3865.0	11.1.7
HPE Ethernet 10Gb 2-port 562T Adapter	800016EF	1.3865.0	10.55.3

The combo image v1.3865.0 includes: Boot Agent: 1GbE - v1.5.90, 10GbE - v2.4.59, 40GbE - v1.1.45 & UEFI Drivers: 1GbE - v9.8.92, 10GbE - v8.2.96, 40GbE - v5.0.22

Single NVM Version is new firmware format which represent an unified version in place of the previously used EEPROM/NVM Version or OROM version.

**This software package no longer contains Firmware for the below listed supported network adapters:**

HPE Ethernet 1Gb 2-port 363i Adapter

HPE Ethernet 1Gb 4-port 366i Adapter

HPE Ethernet 1Gb 4-port 366i Communication Board

HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter

HPE Ethernet 10Gb 2-port 560SFP+ Adapter

HPE Ethernet 10Gb 2-port 561FLR-T Adapter

HPE Ethernet 10Gb 2-port 561T Adapter

- o The latest firmware version of above adapters, please refer to the link : [https://support.hpe.com/connect/s/softwaredetails?language=en\\_US&softwareId=MTX\\_d7826493bb5a4aa69b4aa9a1d5&tab=releaseNotes](https://support.hpe.com/connect/s/softwaredetails?language=en_US&softwareId=MTX_d7826493bb5a4aa69b4aa9a1d5&tab=releaseNotes)

**Prerequisites**

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

**Fixes**

This product fixed PXE Boot does not work when DMA remapping is enabled in AMD platform.

**Supported Devices and Features**

This package supports the following network adapters:

- o HPE Ethernet 1Gb 2-port 361i Adapter
- o HPE Ethernet 1Gb 2-port 361T Adapter
- o HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter
- o HPE Ethernet 1Gb 2-port 368i Adapter
- o HPE Ethernet 1Gb 4-port 366FLR Adapter
- o HPE Ethernet 1Gb 4-port 366T Adapter
- o HPE Ethernet 1Gb 4-port 369i Adapter
- o HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 562FLR-T Adapter
- o HPE Ethernet 10Gb 2-port 562SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 562T Adapter
- o HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter
- o HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter
- o HPE Ethernet 10Gb 2-port 568i Adapter
- o HPE Ethernet 10Gb 2-port 563i Adapter

HPE QLogic FastLinQ Firmware Package for Arrowhead adapters

Version: 8.65.23 (**Recommended**)

Filename: ql\_hp\_ah\_mbi\_8.65.23\_pldm.fwpkg

**Important Note!**

For Firmware installation, there is no OS and drivers dependency.

For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o HPE QLogic FastLinQ 10/25/50 GbE Drivers for Linux, version 8.74.6.0-x or later
- o HPE QLogic FastLinQ 10/25/50 GbE Drivers for Microsoft Windows Server x64 Editions, version 8.72.21.0 or later
- o HPE QLogic FastLinQ 10/25/50 GbE Multifunction Drivers for VMware, version 2025.03.00 or later

This software package contains combo image v8.65.23. This combo image includes: Boot Code (MFW): 8.65.7.0, PXE: 2.0.19, and UEFI: 4.1.13.2.

**Enhancements**

This product enhanced the compatibility with drivers.

## **Supported Devices and Features**

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 521T Adapter
- o HPE Ethernet 10Gb 2-port 524SFP+ Adapter
- o HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter
- o HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Adapter
- o HPE StoreFabric CN1200R-T Converged Network Adapter
- o HPE StoreFabric CN1300R Converged Network Adapter

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HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware

Version: 4.20.0 **(Recommended)**

Filename: CP064261.compsig; CP064261.zip

## **Important Note!**

HPE recommends *HPE QLogic FastLinQ 10/25/50GbE Multifunction Drivers for VMware*, versions 2025.03.00 or later, for use with this firmware.

This software package contains combo image version v8.65.23 includes:

- o Boot Code (MFW): 8.65.7.0
- o UEFI: 4.1.13.2
- o PXE: 2.0.19

The users will only see the combo image versions in the interactive mode firmware update or while using HPSUM/SPP to update the firmware on the supported adapters.

## **Prerequisites**

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

## **Enhancements**

This product enhanced the compatibility with drivers.

## **Supported Devices and Features**

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 521T Adapter
- HPE Ethernet 10Gb 2-port 524SFP+ Adapter
- HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter
- HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter
- HPE StoreFabric CN1200R-T Converged Network Adapter
- HPE StoreFabric CN1300R Converged Network Adapter

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HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware

Version: 8.55.12 (B) **(Recommended)**

Filename: CP065660.compsig; CP065660.zip

## **Important Note!**

HPE recommends *HPE QLogic FastLinQ 10/25/50GbE Multifunction Drivers for VMware*, versions 2021.04.05 or later, for use with this firmware.

This software package contains combo image version v8.55.12 includes:

- Boot Code (MFW): 8.55.21.0
- UEFI: 4.1.11.2
- PXE: 2.0.19

The users will only see the combo image versions in the interactive mode firmware update or while using HPSUM/SPP to update the firmware on the supported adapters.

## **Prerequisites**

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

## **Fixes**

This product addresses a pause flood condition on switch when attempting iPXE boot.

## **Enhancements**

This product contains support PLDM firmware upgrade base improvements.

## **Supported Devices and Features**

This product supports the following network adapters:

- HPE Ethernet 10Gb 2-port 521T Adapter
- HPE Ethernet 10Gb 2-port 524SFP+ Adapter
- HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter
- HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter
- HPE StoreFabric CN1200R-T Converged Network Adapter
- HPE StoreFabric CN1300R Converged Network Adapter

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HPE QLogic NX2 Online Firmware Upgrade Utility for VMware

**Important Note!**

HPE recommends HPE QLogic NX2 10/20GbE Multifunction Drivers for VMware, versions 2025.03.00 or later, for use with this firmware.

This software package contains combo image v7.19.27 with the following firmware versions:

NIC	Boot Code Version	PXE Version	UEFI Version	iSCSI Version	FCoE Version	CCM Version	L2 Version
HPE Ethernet 10Gb 2-port 530SFP+ Adapter HPE Ethernet 10Gb 2-port 530T Adapter	7.16.15	7.14.13	8.9.3	n/a	n/a	7.14.4	7.12.25
HPE Ethernet 10Gb 2-port 533FLR-T Adapter HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter HPE FlexFabric 10Gb 4-port 536FLR-T Adapter	7.16.15	7.14.13	8.9.3	7.14.0	7.14.3	7.14.4	7.12.25

**Prerequisites**

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

**Enhancements**

This product enhanced the compatibility with drivers.

**Supported Devices and Features**

This product supports the following network adapters:

- o HPE Ethernet 10Gb 2-port 530SFP+ Adapter
- o HPE Ethernet 10Gb 2-port 530T Adapter
- o HPE Ethernet 10Gb 2-port 533FLR-T Adapter
- o HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter
- o HPE FlexFabric 10Gb 4-port 536FLR-T Adapter

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Intel Firmware Package For E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter  
Version: 4.90 **(Recommended)**  
Filename: HPE\_E810\_2CQDA2\_O\_SEC\_4p90\_PLDMoMCTP\_80020EF7.fwpkg; HPE\_E810\_2CQDA2\_O\_SEC\_4p90\_PLDMoMCTP\_80020EF7.json

**Important Note!**

For Firmware installation, there is no OS and drivers dependency.  
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o Intel icea Driver for Microsoft Windows Server, version 1.18.71.0 or later
- o Intel ice Drivers for Linux, version 2.3.10-1 or later
- o Intel icen Driver for VMware, version 2025.11.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

**Fixes**

- o This product fixed PXE Boot does not work when MS secured-core enabled with HPE ProLiant Gen11 AMD platform server.
- o This product fixed Link Speed selection under NIC Configuration in HPE RBSU menu.

**Enhancements**

This product adds Automatic Link on Startup option under the NIC Configuration in HPE RBSU menu.

**Supported Devices and Features**

This product supports the following network adapters:

- o Intel E810-2CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE

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Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter  
Version: 4.90 **(Recommended)**  
Filename: HPE\_E810\_CQDA2\_4p90\_PLDMoMCTP\_80020EF2.fwpkg; HPE\_E810\_CQDA2\_4p90\_PLDMoMCTP\_80020EF2.json

**Important Note!**

For Firmware installation, there is no OS and drivers dependency.  
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o Intel icea Driver for Microsoft Windows Server, version 1.18.71.0 or later
- o Intel ice Drivers for Linux, version 2.3.10-1 or later
- o Intel icen Driver for VMware, version 2025.11.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

**Fixes**

- o This product fixed PXE Boot does not work when MS secured-core enabled with HPE ProLiant Gen11 AMD platform server.

- This product fixed Link Speed selection under NIC Configuration in HPE RBSU menu.

### **Enhancements**

- This product adds Automatic Link on Startup option under the NIC Configuration in HPE RBSU menu.
- This product enhanced media type detection function on PHY on 100G adapter.

### **Supported Devices and Features**

This product supports the following network adapters:

- Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE

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Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter

Version: 4.90 (**Recommended**)

Filename: HPE\_E810\_CQDA2\_OCP\_4p90\_NCSiWPLDMoMCTP\_80020EF8.fwpkg; HPE\_E810\_CQDA2\_OCP\_4p90\_NCSiWPLDMoMCTP\_80020EF8.json

### **Important Note!**

For Firmware installation, there is no OS and drivers dependency.

For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- Intel icea Driver for Microsoft Windows Server, version 1.18.71.0 or later
- Intel ice Drivers for Linux, version 2.3.10-1 or later
- Intel icen Driver for VMware, version 2025.11.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

### **Fixes**

- This product fixed PXE Boot does not work when MS secured-core enabled with HPE ProLiant Gen11 AMD platform server.
- This product fixed Link Speed selection under NIC Configuration in HPE RBSU menu.

### **Enhancements**

- This product adds Automatic Link on Startup option under the NIC Configuration in HPE RBSU menu.
- This product enhanced media type detection function on PHY on 100G adapter.

### **Supported Devices and Features**

This product supports the following network adapters:

- Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE

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Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter

Version: 4.20 (**Recommended**)

Filename: HPE\_E810\_XXVDA2\_SD\_4p20\_PLDMoMCTP\_8001778C.fwpkg

### **Important Note!**

For Firmware installation, there is no OS and drivers dependency.

For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- Intel icea Driver for Microsoft Windows Server, version 1.12.164.0 or later
- Intel ice Drivers for Linux, version 1.11.14-1 or later
- Intel icen Driver for VMware, version 2023.09.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

### **Fixes**

- This product addresses an issue where InterfaceEnabled property is read only and it can't patch this property
- This product addresses an issue where UMCE is seen

### **Enhancements**

This product now supports ResetToDefault property(RDE Port Schema).

### **Supported Devices and Features**

This product supports the following network adapters:

- Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE

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Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter

Version: 4.90 (B) (**Recommended**)

Filename: HPE\_E810\_XXVDA2\_SD\_4p90\_PLDMoMCTP\_80020EF6.fwpkg; HPE\_E810\_XXVDA2\_SD\_4p90\_PLDMoMCTP\_80020EF6.json

### **Important Note!**

For Firmware installation, there is no OS and drivers dependency.

For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o Intel icea Driver for Microsoft Windows Server, version 1.18.71.0 or later
- o Intel ice Drivers for Linux, version 2.3.10-1 or later
- o Intel icen Driver for VMware, version 2025.11.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

### **Fixes**

- o This product fixed PXE Boot does not work when MS secured-core enabled with HPE ProLiant Gen11 AMD platform server.
- o This product fixed Link Speed selection under NIC Configuration in HPE RBSU menu.

### **Enhancements**

This product adds Automatic Link on Startup option under the NIC Configuration in HPE RBSU menu.

### **Supported Devices and Features**

This product supports the following network adapters:

- o Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE

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Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter

Version: 4.90 (**Recommended**)

Filename: HPE\_E810\_XXVDA2\_SD\_OCP\_4p90\_NCSIwPLDMoMCTP\_80020F00.fwpkg; HPE\_E810\_XXVDA2\_SD\_OCP\_4p90\_NCSIwPLDMoMCTP\_80020F00.json

### **Important Note!**

For Firmware installation, there is no OS and drivers dependency.

For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o Intel icea Driver for Microsoft Windows Server, version 1.18.71.0 or later
- o Intel ice Drivers for Linux, version 2.3.10-1 or later
- o Intel icen Driver for VMware, version 2025.11.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

### **Fixes**

- o This product fixed PXE Boot does not work when MS secured-core enabled with HPE ProLiant Gen11 AMD platform server.
- o This product fixed Link Speed selection under NIC Configuration in HPE RBSU menu.

### **Enhancements**

This product adds Automatic Link on Startup option under the NIC Configuration in HPE RBSU menu.

### **Supported Devices and Features**

This product supports the following network adapters:

- o Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE

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Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter

Version: 4.90 (**Recommended**)

Filename: HPE\_E810\_XXVDA4\_FH\_4p90\_PLDMoMCTP\_80020F02.fwpkg; HPE\_E810\_XXVDA4\_FH\_4p90\_PLDMoMCTP\_80020F02.json

### **Important Note!**

For Firmware installation, there is no OS and drivers dependency.

For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o Intel icea Driver for Microsoft Windows Server, version 1.18.71.0 or later
- o Intel ice Drivers for Linux, version 2.3.10-1 or later
- o Intel icen Driver for VMware, version 2025.11.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

### **Fixes**

- o This product fixed PXE Boot does not work when MS secured-core enabled with HPE ProLiant Gen11 AMD platform server.
- o This product fixed Link Speed selection under NIC Configuration in HPE RBSU menu.

### **Enhancements**

This product adds Automatic Link on Startup option under the NIC Configuration in HPE RBSU menu.

Supported Devices and Features

- This product supports the following network adapters:
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE

Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter  
Version: 4.90 **(Recommended)**  
Filename: HPE\_E810\_XXV4\_OCP\_4p90\_NCSIwPLDMoMCTP\_80020EF3.fwpkg; HPE\_E810\_XXV4\_OCP\_4p90\_NCSIwPLDMoMCTP\_80020EF3.json

Important Note!

- For Firmware installation, there is no OS and drivers dependency.  
For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,
- Intel icea Driver for Microsoft Windows Server, version 1.18.71.0 or later
  - Intel ice Drivers for Linux, version 2.3.10-1 or later
  - Intel icen Driver for VMware, version 2025.11.00 or later

This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

Fixes

- This product fixed PXE Boot does not work when MS secured-core enabled with HPE ProLiant Gen11 AMD platform server.
- This product fixed Link Speed selection under NIC Configuration in HPE RBSU menu.

Enhancements

This product adds Automatic Link on Startup option under the NIC Configuration in HPE RBSU menu.

Supported Devices and Features

- This product supports the following network adapters:
- Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

Intel Online Firmware Upgrade Utility for VMware  
Version: 3.28.0 **(Recommended)**  
Filename: CP068729.compsig; CP068729.zip

Important Note!

This software package contains the following firmware versions for the below listed supported network adapters:

NIC	EEPROM/NVM Version	OROM Version	Single NVM Version	FW Version
HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter	8000FDFD	1.3863.0	N/A	9.55
HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter	8000FE06	1.3863.0	N/A	9.55
Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter	8000123F	1.3863.0	N/A	N/A
Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter	80001234	1.3863.0	N/A	N/A
Intel(R) I350 Gigabit Network Connection (2-port)	8000119C	1.3863.0	N/A	N/A
Intel(R) I350 Gigabit Network Connection (4-port)	8000E897	1.3863.0	N/A	N/A

The combo image v1.3815.0 includes: Boot Agent: 1GbE - v1.5.90, 10GbE - v2.4.59, 40GbE - v1.1.45 & UEFI Drivers: 1GbE - v9.8.92, 10GbE - v8.2.96, 40GbE - v5.0.22  
Single NVM Version is new firmware format which represent an unified version in place of the previously used EEPROM/NVM Version or OROM version.

Prerequisites

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

Fixes

This product fixed PXE Boot does not work when DMA remapping is enabled in AMD platform.

Supported Devices and Features

- This package supports the following network adapters:
- Intel(R) I350 Gigabit Network Connection (2-port)
  - Intel(R) I350 Gigabit Network Connection (4-port)
  - HPE Ethernet 1Gb 4-port BaseT I350-T4 Adapter
  - HPE Ethernet 1Gb 4-port BaseT I350-T4 OCP3 Adapter
  - HPE Ethernet 10Gb 2-port SFP+ X710-DA2 OCP3 Adapter
  - HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter

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Marvell FastLinQ Firmware Package for Arrowhead adapters

Version: 8.65.21 **(Recommended)**

Filename: ql\_ah\_mbi\_open\_8.65.21\_pldm.fwpgk

### **Important Note!**

For Firmware installation, there is no OS and drivers dependency.

For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- o Marvell FastLinQ 10/25/50 GbE Drivers for Microsoft Windows Server x64 Editions, version 8.72.21.0 or later
- o HPE QLogic FastLinQ 10/25/50 GbE Drivers for Linux, version 8.74.6.0-5 or later
- o HPE QLogic FastLinQ 10/25/50 GbE Multifunction Drivers for VMware, version 2025.03.00 or later

### **Enhancements**

This product enhanced the compatibility with drivers.

### **Supported Devices and Features**

This product supports the following network adapters:

- o HPE Ethernet 10/25Gb 2-port SFP28 QL41232HLCU Adapter
- o HPE Ethernet 10/25Gb 2-port SFP28 QL41232HQCUC OCP3 Adapter
- o HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter
- o HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ QL41132HLCU Adapter
- o HPE Ethernet 10Gb 2-port SFP+ QL41132HQCUC OCP3 Adapter
- o HPE Ethernet 10Gb 4-port SFP+ QL41134HLCU Adapter

---

Marvell FastLinQ Online Firmware Upgrade Utility for VMware

Version: 8.55.12 (B) **(Recommended)**

Filename: CP065661.compsig; CP065661.zip

### **Important Note!**

This software package contains combo image v8.55.12. This combo image includes:

- o PXE: 2.0.19
- o Boot Code (MFW): 8.55.22.0
- o UEFI: 6.1.8.2

### **Prerequisites**

This product requires the appropriate driver for your device and operating system be installed before firmware is updated.

### **Fixes**

- o This product contains support PLDM firmware upgrade base improvements.
- o This product addresses an overheat issue on the network adapters as below,

HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter  
HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter

### **Enhancements**

This product now supported NPAR enabling option.

### **Supported Devices and Features**

This product supports the following network adapters:

- o HPE Ethernet 10/25Gb 2-port SFP28 QL41232HQCUC OCP3 Adapter
- o HPE Ethernet 10/25Gb 2-port SFP28 QL41232HLCU Adapter
- o HPE Ethernet 10Gb 4-port SFP+ QL41134HLCU Adapter
- o HPE Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter
- o HPE Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ QL41132HQCUC OCP3 Adapter
- o HPE Ethernet 10Gb 2-port SFP+ QL41132HLCU Adapter

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Mellanox Firmware Package(FWPKG) for HPE NVIDIA Ethernet 100Gb 2-port NVMe-oF Offload Adapter for HPE

Version: 22.45.1020 **(Recommended)**

Filename: 22\_45\_1020-R8M41-63001\_Ax\_header.pldm.fwpgk

### **Prerequisites**

FWPKG will work only if the firmware version flashed on the adapter is 22.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

### **Enhancements**

Upgraded to version 22.45.1020

### **Supported Devices and Features**

HPE Part Number	Mellanox Ethernet Only Adapters	PSID
P46603-B21	NVIDIA Ethernet 100Gb 2-port NVMe-oF Offload Adapter for HPE	HPE0000000062

Mellanox Firmware Package(FWPKG) for NVIDIA Ethernet 10/25Gb 2-port SFP28 NVMe-oF Crypto Adapter for HPE  
Version: 26.45.1020 (**Recommended**)  
Filename: 26\_45\_1020-S2A69-63001\_Ax\_header.pldm.fwpkg

#### **Prerequisites**

FWPKG will work only if the firmware version flashed on the adapter is 22.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

#### **Enhancements**

Upgraded to version 26.45.1020

#### **Supported Devices and Features**

HPE Part Number	Mellanox Ethernet Only Adapters	PSID
P46603-B21	NVIDIA Ethernet 10/25Gb 2-port SFP28 NVMe-oF Crypto Adapter for HPE	HPE0000000062

NVIDIA Firmware Package (FWPKG) - Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE  
Version: 26.46.3048 (**Recommended**)  
Filename: 26\_46\_3048-MCX631102AS-ADA\_Ax.pldm.fwpkg; 26\_46\_3048-MCX631102AS-ADA\_Ax.pldm.json

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6lxfirmwarev26463048/known+issues>

#### **Prerequisites**

FWPKG will work only if the firmware version flashed on the adapter is 20.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

#### **Fixes**

**The following issues have been fixed in version 26.46.3048:**

- o Configuring a small MTU led to fragmentation of packets critical for the PXE boot process. As a result, the PXE boot filters mistakenly discarded these packets, causing the PXE boot to fail.

#### **Enhancements**

**New features and changes included in version 26.46.3048:**

- o Added support for RSS with crypto offload enabling the NIC to parallelize packet processing across CPU cores while performing encryption/decryption in hardware. Additionally, introduced a new `l4_type_ext` parameter with values: 0 (None), 1 (TCP), 2 (UDP), 3 (ICMP).
- o Added an extra validation for the `payload_len` field in incoming NC-SI messages. Previously, invalid packets might have been accepted; now, such packets are silently dropped.
- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

#### **Supported Devices and Features**

HPE Part Number	NVIDIA Ethernet Only Adapters	PSID
P42044-B21	Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	MT_0000000575

NVIDIA Firmware Package (FWPKG) - Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE  
Version: 26.46.3048 (**Recommended**)  
Filename: 26\_46\_3048-MCX631432AS-ADA\_Ax.pldm.fwpkg; 26\_46\_3048-MCX631432AS-ADA\_Ax.pldm.json

#### **Important Note!**

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6lxfirmwarev26463048/known+issues>

## Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 20.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

## Fixes

### The following issues have been fixed in version 26.46.3048:

- Configuring a small MTU led to fragmentation of packets critical for the PXE boot process. As a result, the PXE boot filters mistakenly discarded these packets, causing the PXE boot to fail.

## Enhancements

### New features and changes included in version 26.46.3048:

- Added support for RSS with crypto offload enabling the NIC to parallelize packet processing across CPU cores while performing encryption/decryption in hardware. Additionally, introduced a new `l4_type_ext` parameter with values: 0 (None), 1 (TCP), 2 (UDP), 3 (ICMP).
- Added an extra validation for the `payload_len` field in incoming NC-SI messages. Previously, invalid packets might have been accepted; now, such packets are silently dropped.
- This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

## Supported Devices and Features

HPE Part Number	NVIDIA Ethernet Only Adapters	PSID
P42041-B21	Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	MT_0000000551

NVIDIA Firmware Package (FWPKG) for HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter : HPE part numbers P31246-B21 and P31246-H21

Version: 16.35.8002 (**Recommended**)

Filename: 16\_35\_8002-MCX515A-CCA\_HPE\_Ax.pldm.fwpkg; 16\_35\_8002-MCX515A-CCA\_HPE\_Ax.pldm.json

## Important Note!

For PLDM enabled VPI (Virtual Protocol Interconnect) adapters supporting both InfiniBand mode and Ethernet modes, every firmware version is made available in two different formats at HPE.com:

- HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.
- Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.

Choose the appropriate firmware file format based on your preference and what suits your environment.

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx5firmwarev16358002/known+issues>

## Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 16.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

## Fixes

### The following issues have been fixed in version 16.35.8002:

- Firmware failed to scan the correct CQs for the PF after the FW entered into the CQ recovery mode., resulting in CQs for the PF not being recovered.

## Enhancements

### New features and changes included in version 16.35.8002:

- Enhanced performance of firmware exception path handling to better support increased numbers of configured SR-IOV instances.
- This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

## Supported Devices and Features

This software package contains the following firmware versions:

NVIDIA Ethernet Only Adapters	Firmware Version	PSID
HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter(P31246-B21 and P31246-H21)	16.35.8002	MT_0000000591

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 MCX653105A-HDAT Adapter : HPE part numbers P23664-B21 and P23664-H21

Version: 20.43.8002 (**Recommended**)

Filename: 20\_43\_8002-MCX653105A-HDA\_HPE\_Ax.pldm.fwpkg; 20\_43\_8002-MCX653105A-HDA\_HPE\_Ax.pldm.json

## **Important Note!**

For PLDM enabled VPI (Virtual Protocol Interconnect) adapters supporting both InfiniBand mode and Ethernet modes, every firmware version is made available in two different formats at HPE.com:

1. HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.
2. Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.

Choose the appropriate firmware file format based on your preference and what suits your environment.

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20438002/known+issues>

## **Prerequisites**

FWPKG will work only if the firmware version flashed on the adapter is 20.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

## **Fixes**

**The following issues have been fixed in version 20.43.8002:**

- o Enabling DIM led to high IRQ/s in certain scenarios.

## **Enhancements**

**New features and changes included in version 20.43.8002:**

- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

## **Supported Devices and Features**

This software package contains the following firmware versions:

NVIDIA VPI Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 MCX653105A-HDAT Adapter (P23664-B21 and P23664-H21)	20.43.8002	MT_0000000451

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter : HPE part numbers P31323-B21 and P31323-H21

Version: 20.43.8002 (**Recommended**)

Filename: 20\_43\_8002-MCX653435A-HDA\_HPE\_Ax.pldm.fwpkg; 20\_43\_8002-MCX653435A-HDA\_HPE\_Ax.pldm.json

## **Important Note!**

For PLDM enabled VPI (Virtual Protocol Interconnect) adapters supporting both InfiniBand mode and Ethernet modes, every firmware version is made available in two different formats at HPE.com:

1. HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.
2. Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.

Choose the appropriate firmware file format based on your preference and what suits your environment.

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20438002/known+issues>

## **Prerequisites**

FWPKG will work only if the firmware version flashed on the adapter is 20.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

## **Fixes**

**The following issues have been fixed in version 20.43.8002:**

- o Enabling DIM led to high IRQ/s in certain scenarios.

## **Enhancements**

**New features and changes included in version 20.43.8002:**

- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

## Supported Devices and Features

This software package contains the following firmware versions:

NVIDIA VPI Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 1-port QSP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter (P31323-B21 and P31323-H21)	20.43.8002	MT_0000000592

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 2-port QSP56 PCIe4 x16 MCX653106A-HDAT Adapter : HPE part numbers P31324-B21 and P31324-H21

Version: 20.43.8002 (**Recommended**)

Filename: 20\_43\_8002-MCX653106A-HDA\_HPE\_Ax.pldm.fwpkg; 20\_43\_8002-MCX653106A-HDA\_HPE\_Ax.pldm.json

## Important Note!

For PLDM enabled VPI (Virtual Protocol Interconnect) adapters supporting both InfiniBand mode and Ethernet modes, every firmware version is made available in two different formats at HPE.com:

1. HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.
2. Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.

Choose the appropriate firmware file format based on your preference and what suits your environment.

**ConnectX-6 VPI supports having one port as InfiniBand and the other port as Ethernet according to the following matrix of combinations.**

Port #2 - InfiniBand				
Port #1 - Ethernet	HDR/HDR100	EDR	FDR	QDR
200GbE/50GbE	supported	not supported	not supported	supported
100GbE/25GbE	supported	not supported	not supported	supported
40GbE/10GbE	supported	not supported	not supported	supported
1GbE	supported	not supported	not supported	supported

Port #2 - Ethernet				
Port #1 - InfiniBand	200GbE/50GbE	100GbE/25GbE	40GbE/10GbE	1GbE
HDR / HDR100	supported	supported	not supported	supported
EDR	supported	supported	not supported	supported
FDR	not supported	not supported	not supported	not supported
QDR/SDR	supported	supported	not supported	supported

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20438002/its/known+issues>

## Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 20.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

## Fixes

**The following issues have been fixed in version 20.43.8002:**

- o Enabling DIM led to high IRQ/s in certain scenarios.

## Enhancements

**New features and changes included in version 20.43.8002:**

- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

## Supported Devices and Features

This software package contains the following firmware versions:

NVIDIA VPI Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter(P31324-B21 and P31324-H21)	20.43.8002	MT_0000000594

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter : HPE part numbers P31348-B21 and P31348-H21

Version: 20.43.8002 (**Recommended**)

Filename: 20\_43\_8002-MCX653436A-HDA\_HPE\_Ax.pldm.fwpkg; 20\_43\_8002-MCX653436A-HDA\_HPE\_Ax.pldm.json

### Important Note!

For PLDM enabled VPI (Virtual Protocol Interconnect) adapters supporting both InfiniBand mode and Ethernet modes, every firmware version is made available in two different formats at HPE.com:

1. HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.
2. Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.

Choose the appropriate firmware file format based on your preference and what suits your environment.

**ConnectX-6 VPI supports having one port as InfiniBand and the other port as Ethernet according to the following matrix of combinations.**

Port #2 - InfiniBand				
Port #1 - Ethernet	HDR/HDR100	EDR	FDR	QDR
200GbE/50GbE	supported	not supported	not supported	supported
100GbE/25GbE	supported	not supported	not supported	supported
40GbE/10GbE	supported	not supported	not supported	supported
1GbE	supported	not supported	not supported	supported

Port #2 - Ethernet				
Port #1 - InfiniBand	200GbE/50GbE	100GbE/25GbE	40GbE/10GbE	1GbE
HDR / HDR100	supported	supported	not supported	supported
EDR	supported	supported	not supported	supported
FDR	not supported	not supported	not supported	not supported
QDR/SDR	supported	supported	not supported	supported

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20438002/its/known+issues>

### Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 20.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

### Fixes

**The following issues have been fixed in version 20.43.8002:**

- o Enabling DIM led to high IRQ/s in certain scenarios.

### Enhancements

**New features and changes included in version 20.43.8002:**

- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

### Supported Devices and Features

This software package contains the following firmware versions:

NVIDIA VPI Adapter	Firmware Version	PSID
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter (P31348-B21 and P31348-H21)	20.43.8002	MT_0000000593

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter : HPE part numbers P23665-B21 and P23665-H21

Version: 20.43.8002 (**Recommended**)

Filename: 20\_43\_8002-MCX653105A-ECA\_HPE\_Ax.pldm.fwpkg; 20\_43\_8002-MCX653105A-ECA\_HPE\_Ax.pldm.json

### Important Note!

For PLDM enabled VPI (Virtual Protocol Interconnect) adapters supporting both InfiniBand mode and Ethernet modes, every firmware version is made available in two different formats at HPE.com:

1. HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.
2. Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.

Choose the appropriate firmware file format based on your preference and what suits your environment.

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20438002/its/known+issues>

### Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 20.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

### Fixes

**The following issues have been fixed in version 20.43.8002:**

- o Enabling DIM led to high IRQ/s in certain scenarios.

### Enhancements

**New features and changes included in version 20.43.8002:**

- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

### Supported Devices and Features

This software package contains the following firmware versions:

NVIDIA VPI Adapter	Firmware Version	PSID
HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter (P23665-B21 and P23665-H21)	20.43.8002	MT_0000000452

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter : HPE part numbers P23666-B21 and P23666-H21

Version: 20.43.8002 (**Recommended**)

Filename: 20\_43\_8002-MCX653106A-ECA\_HPE\_Ax.pldm.fwpkg; 20\_43\_8002-MCX653106A-ECA\_HPE\_Ax.pldm.json

### Important Note!

For PLDM enabled VPI (Virtual Protocol Interconnect) adapters supporting both InfiniBand mode and Ethernet modes, every firmware version is made available in two different formats at HPE.com:

1. HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.
2. Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.

Choose the appropriate firmware file format based on your preference and what suits your environment.

**ConnectX-6 VPI supports having one port as InfiniBand and the other port as Ethernet according to the following matrix of combinations.**

Port #2 - InfiniBand				
Port #1 - Ethernet	HDR/HDR100	EDR	FDR	QDR
50GbE	supported	not supported	not supported	supported
100GbE/25GbE	supported	not supported	not supported	supported
40GbE/10GbE	supported	not supported	not supported	supported
1GbE	supported	not supported	not supported	supported

Port #2 - Ethernet				
Port #1 - InfiniBand	50GbE	100GbE/25GbE	40GbE/10GbE	1GbE
HDR / HDR100	supported	supported	not supported	supported
EDR	supported	supported	not supported	supported
FDR	not supported	not supported	not supported	not supported
QDR/SDR	supported	supported	not supported	supported

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6firmwarev20438002/known+issues>

### **Prerequisites**

FWPKG will work only if the firmware version flashed on the adapter is 20.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

### **Fixes**

**The following issues have been fixed in version 20.43.8002:**

- Enabling DIM led to high IRQ/s in certain scenarios.

### **Enhancements**

**New features and changes included in version 20.43.8002:**

- This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

### **Supported Devices and Features**

This software package contains the following firmware versions:

<b>NVIDIA VPI Adapter</b>	<b>Firmware Version</b>	<b>PSID</b>
HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter (P23666-B21 and P23666-H21)	20.43.8002	MT_0000000453

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter : HPE part numbers P45642-B22 and P45642-H22

Version: 28.46.3048 **(Recommended)**

Filename: 28\_46\_3048-MCX75310AAS-HEAT\_HPE2\_Ax.pldm.fwpkg; 28\_46\_3048-MCX75310AAS-HEAT\_HPE2\_Ax.pldm.json

### **Important Note!**

For PLDM enabled VPI (Virtual Protocol Interconnect) adapters supporting both InfiniBand mode and Ethernet modes, every firmware version is made available in two different formats at HPE.com:

1. HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.
2. Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.

Choose the appropriate firmware file format based on your preference and what suits your environment.

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx7firmwarev28463048/known+issues>

### **Prerequisites**

FWPKG will work only if the iLO5 firmware version is 2.30 or higher.

### **Fixes**

**The following fixes have been included in version 28.46.3048:**

- The adapter card would drop NC-SI over MCTP commands when padding bytes were present after the NC-SI checksum.

### **Enhancements**

**New features and changes included in version 28.46.3048:**

- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

## Supported Devices and Features

HPE Part Number	NVIDIA VPI Adapter	PSID
P45642-B22	HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter (P45642-B22 and P45642-H22)	MT_0000001119

NVIDIA Firmware Package (FWPKG) for Mellanox MCX562A-ACAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE

Version: 16.35.8002 (**Recommended**)

Filename: 16\_35\_8002-MCX562A-ACA\_Ax\_Bx.pldm.fwpkg; 16\_35\_8002-MCX562A-ACA\_Ax\_Bx.pldm.json

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx5firmwarev16358002/known+issues>

## Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 16.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

## Fixes

**The following issues have been fixed in version 16.35.8002:**

- o Firmware failed to scan the correct CQs for the PF after the FW entered into the CQ recovery mode., resulting in CQs for the PF not being recovered.

## Enhancements

**New features and changes included in version 16.35.8002:**

- o Enhanced performance of firmware exception path handling to better support increased numbers of configured SR-IOV instances.
- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

## Supported Devices and Features

HPE Part Number	NVIDIA Ethernet Only Adapters	PSID
P10112-B21	Mellanox MCX562A-ACAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	MT_0000000241

NVIDIA Firmware Package (FWPKG) for Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE

Version: 22.46.3048 (**Recommended**)

Filename: 22\_46\_3048-MCX623105AS-VDA\_Ax.pldm.fwpkg; 22\_46\_3048-MCX623105AS-VDA\_Ax.pldm.json

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6dxfirmwarev22463048/known+issues>

## Prerequisites

FWPKG will work only if the firmware version flashed on the adapter is 22.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

## Fixes

**The following issues have been fixed in version 22.46.3048:**

- o Configuring a small MTU led to fragmentation of packets critical for the PXE boot process. As a result, the PXE boot filters mistakenly discarded these packets, causing the PXE boot to fail.

## Enhancements

**New features and changes included in version 22.46.3048:**

- o Added support for RSS with crypto offload enabling the NIC to parallelize packet processing across CPU cores while performing encryption/decryption in hardware. Additionally, introduced a new `l4_type_ext` parameter with values: 0 (None), 1 (TCP), 2 (UDP), 3 (ICMP).

- o Added an extra validation for the payload\_len field in incoming NC-SI messages. Previously, invalid packets might have been accepted; now, such packets are silently dropped.
- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

## **Supported Devices and Features**

HPE Part Number	Mellanox Ethernet Only Adapters	PSID
P10180-B21	Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE	MT_0000000435

NVIDIA Firmware Package (FWPKG) for Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE

Version: 22.46.3048 (**Recommended**)

Filename: 22\_46\_3048-MCX623106AS-CDA\_Ax.pldm.fwpkg; 22\_46\_3048-MCX623106AS-CDA\_Ax.pldm.json

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx6dxfirmwarev22463048/known+issues>

## **Prerequisites**

FWPKG will work only if the firmware version flashed on the adapter is 22.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

## **Fixes**

**The following issues have been fixed in version 22.46.3048:**

- o Configuring a small MTU led to fragmentation of packets critical for the PXE boot process. As a result, the PXE boot filters mistakenly discarded these packets, causing the PXE boot to fail.

## **Enhancements**

**New features and changes included in version 22.46.3048:**

- o Added support for RSS with crypto offload enabling the NIC to parallelize packet processing across CPU cores while performing encryption/decryption in hardware. Additionally, introduced a new l4\_type\_ext parameter with values: 0 (None), 1 (TCP), 2 (UDP), 3 (ICMP).
- o Added an extra validation for the payload\_len field in incoming NC-SI messages. Previously, invalid packets might have been accepted; now, such packets are silently dropped.
- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

## **Supported Devices and Features**

HPE Part Number	NVIDIA Ethernet Only Adapters	PSID
P25960-B21	Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE	MT_0000000437

NVIDIA Firmware Package(FWPKG) for HPE Ethernet 10/25Gb 2-port SFP28 MCX512F-ACHT Adapter

Version: 16.35.8002 (**Recommended**)

Filename: 16\_35\_8002-MCX512F-ACH\_Ax\_Bx.pldm.fwpkg; 16\_35\_8002-MCX512F-ACH\_Ax\_Bx.pldm.json

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A list of known issues with this release is available at: <https://docs.nvidia.com/networking/display/connectx5firmwarev16358002/known+issues>

## **Prerequisites**

FWPKG will work only if the firmware version flashed on the adapter is 16.27.1016 or later and iLO5 firmware version must be 2.30 or higher.

## **Fixes**

**The following issues have been fixed in version 16.35.8002:**

- o Firmware failed to scan the correct CQs for the PF after the FW entered into the CQ recovery mode., resulting in CQs for the PF not being recovered.

## Enhancements

### New features and changes included in version 16.35.8002:

- o Enhanced performance of firmware exception path handling to better support increased numbers of configured SR-IOV instances.
- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

## Supported Devices and Features

HPE Part Number	NVIDIA Ethernet Only Adapters	PSID
P13188-B21	HPE Ethernet 10/25Gb 2-port SFP28 MCX512F-ACHT Adapter	MT_0000000416

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Online Firmware Upgrade Utility (ESXi 8.0) for HPE Ethernet 10Gb 2-port 548SFP+ Adapter  
Version: 1.0.3 (**Recommended**)  
Filename: CP069153.compsig; CP069153.zip

## Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX4-Lx firmware version 14.32.1010. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

## Fixes

No fixes are included in version 14.32.1908.

## Enhancements

### New features and changes included in version 14.32.1908:

- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

## Supported Devices and Features

HPE Part Number	Mellanox Ethernet Only Adapters	PSID
P11338-B21	HPE Ethernet 10Gb 2-port 548SFP+ Adapter	HPE0000000038

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Online Firmware Upgrade Utility (ESXi 8.0) for HPE Mellanox Ethernet only adapters  
Version: 1.0.7 (**Recommended**)  
Filename: CP069157.compsig; CP069157.zip

## Important Note!

The Firmware Upgrade Utility has been split into 2 packages for Mellanox Ethernet Only NIC adapters, one supporting Synergy platforms and the other supporting ProLiant and Apollo platforms. This package supports Mellanox Ethernet Only NIC adapters on ProLiant and Apollo servers.

## Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX4-Lx/ConnectX5 firmware version 14.32.1010/16.32.1010 (or later) respectively. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

## Fixes

No fixes are included in version 14.32.1908.

The following issues have been fixed in version 16.35.8002:

- o Firmware failed to scan the correct CQs for the PF after the FW entered into the CQ recovery mode., resulting in CQs for the PF not being recovered.

## Enhancements

### Firmware for the following devices has been updated to 14.32.1908:

- o 817749-B21 (HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter)
- o 817753-B21 (HPE Ethernet 25Gb 2-port 640SFP28 Adapter)

### Firmware for the following device has been updated to 16.35.8002:

- o 874253-B21 (HPE Ethernet 100Gb 1-port 842QSFP28 Adapter)

### New features and changes included in version 14.32.1908:

- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

### New features and changes included in version 16.35.8002:

- o Enhanced performance of firmware exception path handling to better support increased numbers of configured SR-IOV instances.
- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

## Supported Devices and Features

HPE Part Number	Mellanox Ethernet Only Adapters	PSID
817749-B21	HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter	HP_2690110034
817753-B21	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	HP_2420110034
874253-B21	HPE Ethernet 100Gb 1-port 842QSFP28 Adapter	HPE0000000014

Online Firmware Upgrade Utility (ESXi 8.0) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on VMware ESXi 8.0

Version: 1.0.6 (**Recommended**)

Filename: CP069161.compsig; CP069161.zip

## Fixes

No fixes are included in version 12.28.4704.

The following issues have been fixed in version 16.35.8002:

- o Firmware failed to scan the correct CQs for the PF after the FW entered into the CQ recovery mode., resulting in CQs for the PF not being recovered.

## Enhancements

Firmware for the following devices has been updated to 12.28.4704:

- o 825110-B21 (HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter)
- o 825111-B21 (HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter)

Firmware for the following devices has been updated to 16.35.8002:

- o 879482-B21 (HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter)
- o 872726-B21 (HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter)

New features and changes included in version 12.28.4704:

- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

New features and changes included in version 16.35.8002:

- o Enhanced performance of firmware exception path handling to better support increased numbers of configured SR-IOV instances.
- o This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

## Supported Devices and Features

HPE Part Number	Device Name	PSID
825110-B21	HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	HP_2180110032
825111-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	HP_2190110032
872726-B21	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	HPE0000000009
879482-B21	HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter	HPE0000000022

Online Firmware Upgrade Utility (ESXi 8.0) for HPE NVIDIA VPI (Ethernet and Infiniband mode) ConnectX6 devices on VMware ESXi 8.0

Version: 1.0.9 (**Recommended**)

Filename: CP069137.compsig; CP069137.zip

## Important Note!

ConnectX-6 VPI supports having one port as InfiniBand and the other port as Ethernet according to the following matrix of combinations.

Port #2 - InfiniBand				
Port #1 - Ethernet	HDR/HDR100	EDR	FDR	QDR
200GbE/50GbE	supported	not supported	not supported	supported
100GbE/25GbE	supported	not supported	not supported	supported
40GbE/10GbE	supported	not supported	not supported	supported
1GbE	supported	not supported	not supported	supported

Port #2 - Ethernet				
Port #1 - InfiniBand	200GbE/50GbE	100GbE/25GbE	40GbE/10GbE	1GbE
HDR / HDR100	supported	supported	not supported	supported
EDR	supported	supported	not supported	supported

<b>FDR</b>	not supported	not supported	not supported	not supported
<b>QDR/SDR</b>	supported	supported	not supported	supported

### **Prerequisites**

Use iLO5 firmware version 2.30 or higher with ConnectX6 firmware version 20.32.1010. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

### **Fixes**

**The following issues have been fixed in version 20.43.8002:**

- Enabling DIM led to high IRQ/s in certain scenarios.

### **Enhancements**

**New features and changes included in version 20.43.8002:**

- This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

### **Supported Devices and Features**

<b>HPE Part Number</b>	<b>Device Name</b>	<b>PSID</b>
P06154-B21	HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe3 x16 MCX653105A-HDAT Adapter	HPE0000000034
P06250-B21	HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe3 x16 MCX653105A-ECAT Adapter	HPE0000000035
P06251-B21	HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe3 x16 MCX653106A-ECAT Adapter	HPE0000000036

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Online Firmware Upgrade Utility (ESXi 8.0) for Mellanox Open Ethernet cards

Version: 1.0.7 (**Recommended**)

Filename: CP068978.compsig; CP068978.zip

### **Important Note!**

On Adapter Firmware rewrite scenario, SUM will always discover the Mellanox Open adapter firmware smart component as applicable and select it for deployment If the server iLO5 firmware version is older than 2.30.

### **Prerequisites**

Use iLO5 firmware version 2.30 or higher with ConnectX4-Lx/ConnectX5 firmware version 14.32.1010/16.32.1010 respectively. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

### **Fixes**

**No fixes are included in version 14.32.1908.**

**The following issues have been fixed in version 16.35.8002:**

- Firmware failed to scan the correct CQs for the PF after the FW entered into the CQ recovery mode., resulting in CQs for the PF not being recovered.

### **Enhancements**

**Firmware for the following devices has been updated to 14.32.1908:**

- P21930-B21 (HPE Ethernet 10Gb 2-port SFP+ MCX4121A-XCAT Adapter)
- P11341-B21 (HPE Ethernet 10Gb 2-port SFP+ MCX4621A-ACAB OCP3 Adapter)

**Firmware for the following device has been updated to 16.35.8002:**

- P21927-B21 (HPE Ethernet 100Gb 2-Port QSFP28 MCX516A-CCHT Adapter)

**New features and changes included in version 14.32.1908:**

- This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

**New features and changes included in version 16.35.8002:**

- Enhanced performance of firmware exception path handling to better support increased numbers of configured SR-IOV instances.
- This release contains important reliability improvements and security hardening enhancements. HPE recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

### **Supported Devices and Features**

<b>HPE Part Number</b>	<b>Mellanox Ethernet Only Adapters</b>	<b>PSID</b>
P21930-B21	HPE Ethernet 10Gb 2-port SFP+ MCX4121A-XCHT Adapter	MT_0000000414
P11341-B21	HPE Ethernet 10Gb/25Gb 2-port SFP28 MCX4621A-ACAB OCP3 Adapter	MT_0000000238
P21927-B21	HPE Ethernet 100Gb 2-port QSFP28 MCX516A-CCHT Adapter	MT_0000000417

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## Firmware - Storage Controller

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Controller Firmware Flash for ESXi8.0 and 9.0 - HPE MR216i-a Gen10 Plus Tri Mode Controller

Version: 52.26.3.5487 (B) **(Recommended)**

Filename: CP066014.compsig; CP066014.zip

### Enhancements

- o Support VMware ESXi 9.0.

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Controller Firmware Flash for ESXi8.0 and 9.0 - HPE MR216i-p Gen10 Plus Tri Mode Controller

Version: 52.26.3.5487 (B) **(Recommended)**

Filename: CP066015.compsig; CP066015.zip

### Enhancements

- Support VMware ESXi 9.0.

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Controller Firmware Flash for ESXi8.0 and 9.0 - HPE MR416i-a Gen10 Plus Tri Mode Controller

Version: 52.26.3.5487 (B) **(Recommended)**

Filename: CP066016.compsig; CP066016.zip

### Enhancements

- Support VMware ESXi 9.0.

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Controller Firmware Flash for ESXi8.0 and 9.0 - HPE MR416i-p Gen10 Plus Tri Mode Controller

Version: 52.26.3.5487 (B) **(Recommended)**

Filename: CP066017.compsig; CP066017.zip

### Enhancements

- Support VMware ESXi 9.0.

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Firmware Package - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P204i-c, P416ie-m and P816i-a SR Gen10 and SR308i-o,SR308i-p Gen11 controllers

Version: 7.81 **(Recommended)**

Filename: HPE\_SR\_Gen10\_7.81\_A.fwpkg; HPE\_SR\_Gen10\_7.81\_A.json

### Important Note!

- o HPE Service Pack for ProLiant (SPP) provides a fully qualified recipe for specific firmware and drivers released within the same cycle, making it the primary recommended choice.
- o It is strongly recommended to use controller firmware version 7.81 for SR SAS/SATA controllers and firmware version 03.01.41.032 for SR tri-mode controllers, along with Windows driver version 1016.24.0.1002, Linux driver version 2.1.36-026, and VMware ESXi driver version 4862.0.104, as this combination has been fully qualified.

### Fixes

- o Fixed an issue where SEDs reverting to foreign after controller reboot due to the otherwise owned flag not being saved to the datastore.
- o Fixed an issue where firmware crash/lockup during NDSR (Non-Disruptive Software Reset) due to a NULL pointer reference when handling a failed drive during logical drive rebuild.
- o Fix 4Kn foreign SED being imported into a 512B logical drive due to incorrect failure handling, which could start a rebuild on an incompatible drive and ultimately fail.
- o Fixed an issue where multiple logical drives incorrectly showing REBUILDING simultaneously due to rebuild status not being updated properly during queued transformation and rebuild processes
- o Fixed an issue where master key change failure on Managed SED logical drives due to LU cache flush requests conflicting with the password update process.
- o Fixed an issue where physical drive Predictive Failure status not reported correctly by tools and iLO.
- o Fixed an issue where controller lockup during surface scan caused by stale internal resources when handling Unrecoverable Read Errors (UREs) in unmapped logical drive regions.
- o Fixed an issue where uncorrectable DDR ECC errors could be reported at boot due to cache being accessed before initialization.
- o Fixed an issue where the controller could lock up (0x3120C) when enabling MCP due to duplicate routing entries from flooded BMC requests.
- o Fixed an issue where SATA drives could be incorrectly reported as hot-removed during spin-up by adjusting the dampen timer to align with vendor-specified TTR values.
- o Fixed an issue where the controller could lock up (0x1E30) under high I/O workloads when configuration changes occurred simultaneously with a LUN reset.
- o Fixed an issue where RAID 0 could hang with I/O timeouts and LUN resets during Predictive Spare Rebuild.
- o Fixed an issue where the RAID controller could incorrectly report Online Firmware Activation as enabled. Firmware now checks support during PQI initialization and sets or clears the feature flags accordingly.
- o Fixed an issue where drives in some enclosures could show bay number 255 after the enclosure was powered on and hot-plugged, by adding handling for additional SCSI not ready status codes until the enclosure becomes ready.
- o Fixed an issue where Micron 6550 SED drives could fail to create a Secured Volume due to insufficient timeout during the TCG Revert process.
- o Fixed an issue where the controller Health state from PLDM PDRs could differ from the Storage.Status.HealthRollup value in RDE, by synchronizing the reporting logic.
- o Fixed an issue where SSD firmware updates could fail in dual path configurations due to PLDM errors, by sending Test Unit Ready commands to clear check conditions before SCSI passthrough operations.
- o Fixed an issue where Battery Redfish Alerts contained an incorrect OriginOfCondition pointing to a StorageController instead of the Battery resource.
- o Fixed an issue where RDE UPDATE operations on a Volume's ReadCachePolicy could incorrectly appear successful during a CBE rekey, by adjusting the cache update logic to return accurate results regardless of cache status.
- o Fixed an issue where the HotspareActivationPolicy allowable values incorrectly included OnDriveFailure for RAID 0 volumes with a dedicated spare, by adding configuration checks to ensure only valid values are shown.
- o Fixed an issue where there is a mismatch in Overall Health State and Logical Volume State during RPI, with sensors reporting Warning (Overall Health) while RDE READs ( Logical Volume State) showed OK; reporting OK during RPI is expected behavior.
- o Fixed an issue where ProtectedWriteBack could incorrectly appear as an allowable WriteCachePolicy in RDE READs even without a backup power source, by requiring the power source to be connected and fully charged before publishing the option.
- o Fixed an issue where an RDE READ on certain unsupported Drive resources could cause a controller lockup, by adding bounds checking in the firmware API.

- o Fixed an issue where deleting volumes through PLDM Type 6 could cause a controller lockup if other PLDM commands were sent simultaneously. These commands now return NOT\_READY when a long-running RDE operation is in progress.
- o Fixed an issue where disk utilities could display an invalid box number for drives after failing over to an alternative path, by ensuring only valid controller-provided information is shown.
- o Fixed an issue where an incorrect error message was shown in HII when creating a logical drive on a locked SED, by updating the error message to correctly reflect SED encryption.

### **Enhancements**

- o Added SSD life expectancy monitoring.
- o Added support to require privileged operations token for all RDE ACTION operations, including Drive.Reset and Storage.SetEncryptionKey, improving security for data-destructive actions.
- o Added support to provide meaningful updateInterval values for Numeric Sensor PDRs, setting 5 seconds for controller temperature and 60 seconds for drive temperature sensors.
- o Enhanced the calculation of CapacityBytes@Redfish.AllowableNumbers for Volume Capabilities. The maximum allowable value is now set to the larger of (a) the largest free space range on any existing array, or (b) the sum of unassigned drives with a common interface and media type.
- o Enhanced DriveMetrics support by updating the schema version from 1.0.0 to 1.2.0, adding reporting for ReadIOKiBytes and WriteIOKiBytes properties.
- o Added an enhancement to display drive vendor and model name as separate fields in the Disk Information menu, improving clarity and ease of drive identification.
- o Added support to securely transfer encryption keys in remote key management mode.
- o Enhanced drive writes cache status reporting in HII.

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Firmware Package - HPE Gen12 Boot Controller NS204i-u, HPE Gen11 Boot Controller NS204i-u, NS204i-d and HPE Gen10 Plus Boot Controller NS204i-p, NS204i-d  
 Version: 1.2.14.1022 (**Recommended**)  
 Filename: HPE\_NS204i\_Gen10p\_Gen11\_1.2.14.1022\_A.fwpkg; HPE\_NS204i\_Gen10p\_Gen11\_1.2.14.1022\_A.json

### **Important Note!**

**1.2.14.1018 is the minimum firmware requirement for AMD Turin DL365/385 and Intel Gen12 platforms. Downgrading NS204i firmware to version lower than 1018 will lead to MCTP failure.**

<https://www.hpe.com/global/swpublishing/MTX-c75706b8a59d4d8aabc4e4cc30>

**For Gen10 plus server users, the NS204i firmware has to be 1.2.14.1018 or later in order to enable PLDM firmware update functionality for the controller. Please find the smart component versions of 1.2.14.1018 in below link:**

- o Windows: <https://www.hpe.com/global/swpublishing/MTX-84a4e0bb354f48ead65cf9451>
- o Linux: <https://www.hpe.com/global/swpublishing/MTX-b6448d485ca64fd7a5d0d5f75e>
- o VMware: <https://www.hpe.com/global/swpublishing/MTX-ad49b1acb0d4455c86460c727a>

### **Prerequisites**

- o iLO 6 version 1.10 or later is required for Gen11 and Gen12 servers.
- o iLO 5 version 2.81 or later is required for Gen10/Gen10 Plus servers

### **Fixes**

- Fixed an issue that NS204i-u firmware information is not visible in UEFI when DMA remapping is enabled
- Fixed an issue that NS204i-r is intermittently undetected on DX360 Gen10 Plus after continuous reboots

### **Enhancements**

- o Introduced Self-Encrypting Drive on P81162-B21 NS204i-u 960GB NVMe SED Boot Device
- o Support new Gen 12 servers.

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Firmware Package - HPE MR216i-a Gen10 Plus Tri Mode Controller  
 Version: 52.32.3-6333 (**Recommended**)  
 Filename: HPE\_MR216i-a\_Gen10P\_52.32.3-6333\_A.fwpkg

### **Important Note!**

- o **This firmware version to be used on HPE MR216i-a Gen10 Plus Controller.**

### **Prerequisites**

iLO5 version should be at least 2.98 is required for **chassis&Fabric support**.

### **Fixes**

- o Fix a00143124en\_us Advisory: HPE MR Gen11 Controller - MR Gen11 Controllers on HPE Gen11 Servers May Fail to Generate "WriteCacheDataLoss" in the IML
- o Fix a00148035en\_us Advisory: HPE MR Gen11 Controllers - The Bay And Box NVMe Drive Location Is Not Displayed in the One-Time Boot Menu
- o Fix an issue that Read/Write transfers over 128KB on LTO fail in Linux OS
- o Fix an issue that Backup Exec doesn't work with LTO
- o Fix an issue that controller might be dropped by the iLO in server boot up when there are 240 Logical Drives are configured
- o Fix a rare issue that server health shows critical temporally when remove drive continuously.
- o Fix an issue that unexpected PCIConfiglink page events, Task management to the virtual SES device time out messages are logged in snapdump
- o Fix an issue that Slot capable protocol is missing for empty bay
- o Fix an issue that Link Speed for LTO connected to controller shows Unknown
- o Fix an issue that Request Sense command causes task management on the drive where sanitization is in progress.
- o Fix an issue that Redfish PATCH StorageController[ControllerRates] silently sets random values when the value beyond 255 is used.
- o Fix an issue that incorrect controller error event may be logged when controller is configured as passthrough and do vm reboot
- o Fix an issue that active width, current speed are wrong in Redfish Fabric port when two backplanes connected to same storage port.
- o Fix a rare issue that NVMe drive link status may fail after reboot

- o Fix a rare issue that controller may assert when there are multiple drives removed and inserted in a short time
- o Fix an issue that sanitize percentage does not progress on SATA drives if there is SATA passthrough command running
- o Fix an issue that sanitize percentage does not progress on NVMe drives
- o Fix a rare issue that IO timeout and device reset may occur with stress test of Read/Write and Non-Read/Write commands

## Enhancements

- o DMTF PLDM Redfish Device Enablement enhancements
  - Redfish Volume Transformation Support
    - POST #Volume.ChangeRAIDLAYOUT: RAID Layout Change. Change in the RAID Layout is achieved by providing the target RAIDType and the list of the drives in the input JSON body.
    - POST #Volume.ChangeRAIDLAYOUT: Resize. ChangeRAIDLAYOUT can be used to resize the volume by adding new Unconfigured Good drives without changing the RAIDType. In such cases RAIDType must not be provided in the input JSON body but the full drive list must be provided accordingly.
    - PATCH Volume[CapacityBytes]: This operation is used for resizing the volume when there is unused size available in the volume. There is no scope for adding any new drives here
    - POST #Volume.CheckConsistency: This operation starts Consistency Check operation on the volume. No input is expected for this operation.
  - Redfish Metrics GET Support
    - StorageControllerMetrics: UncorrectableECCErrorCount, CorrectableECCErrorCount, CorrectableParityErrorCount, StateChangeCount
    - PortMetrics: SAS.InvalidDwordCount, SAS.LossOfDwordSynchronizationCount, SAS.RunningDisparityErrorCount, PCIeErrors.CorrectableErrorCount, PCIeErrors.FatalErrorCount, PCIeErrors.NonFatalErrorCount
    - Each counter can hold a value up to 65535. Once the counter reaches the maximum value the value is not reset.
    - Metrics are cleared when user performs Controller NVRAM clear or Redfish ResetToDefaults.ResetAll.
- o Add support for users to clear NVRAM using MRSA and storcli Factory Repurpose operation.
  - Clear NVRAM operation is not allowed if there is any configuration present on the controller or if there is any pinned cache.
  - After clearing NVRAM, controller FW performs Online Controller Reset (OCR). If for some reason OCR cannot be performed, then the user will be notified to perform a system reboot.
  - The Clear NVRAM operation is equivalent to Redfish ResetToDefaults.ResetAll operation functionally.
- o Change the backplane bay count information to the actual bay that is connected to controller. For non-hotplug configuration, controller always shows 16 bays.

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Firmware Package - HPE MR216i-p Gen10 Plus Tri Mode Controller  
 Version: 52.32.3-6333 **(Recommended)**  
 Filename: HPE\_MR216i-p\_Gen10P\_52.32.3-6333\_A.fwpgk

## Important Note!

- o **This firmware version to be used on HPE MR216i-p Gen10 Plus Controller.**

## Prerequisites

iLO5 version should be at least 2.98 is required for **chassis&Fabric support.**

## Fixes

- o Fix a00143124en\_us Advisory: HPE MR Gen11 Controller - MR Gen11 Controllers on HPE Gen11 Servers May Fail to Generate "WriteCacheDataLoss" in the IML
- o Fix a00148035en\_us Advisory: HPE MR Gen11 Controllers - The Bay And Box NVMe Drive Location Is Not Displayed in the One-Time Boot Menu
- o Fix an issue that Read/Write transfers over 128KB on LTO fail in Linux OS
- o Fix an issue that Backup Exec doesn't work with LTO
- o Fix an issue that controller might be dropped by the iLO in server boot up when there are 240 Logical Drives are configured
- o Fix a rare issue that server health shows critical temporally when remove drive continuously.
- o Fix an issue that unexpected PCIConfiglink page events, Task management to the virtual SES device time out messages are logged in snapdump
- o Fix an issue that Slot capable protocol is missing for empty bay
- o Fix an issue that Link Speed for LTO connected to controller shows Unknown
- o Fix an issue that Request Sense command causes task management on the drive where sanitization is in progress.
- o Fix an issue that Redfish PATCH StorageController[ControllerRates] silently sets random values when the value beyond 255 is used.
- o Fix an issue that incorrect controller error event may be logged when controller is configured as passthrough and do vm reboot
- o Fix an issue that active width, current speed are wrong in Redfish Fabric port when two backplanes connected to same storage port.
- o Fix a rare issue that NVMe drive link status may fail after reboot
- o Fix a rare issue that controller may assert when there are multiple drives removed and inserted in a short time
- o Fix an issue that sanitize percentage does not progress on SATA drives if there is SATA passthrough command running
- o Fix an issue that sanitize percentage does not progress on NVMe drives
- o Fix a rare issue that IO timeout and device reset may occur with stress test of Read/Write and Non-Read/Write commands

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    - PATCH Volume[CapacityBytes]: This operation is used for resizing the volume when there is unused size available in the volume. There is no scope for adding any new drives here
    - POST #Volume.CheckConsistency: This operation starts Consistency Check operation on the volume. No input is expected for this operation.
  - Redfish Metrics GET Support
    - StorageControllerMetrics: UncorrectableECCErrorCount, CorrectableECCErrorCount, CorrectableParityErrorCount, StateChangeCount
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    - Each counter can hold a value up to 65535. Once the counter reaches the maximum value the value is not reset.
    - Metrics are cleared when user performs Controller NVRAM clear or Redfish ResetToDefaults.ResetAll.
- o Add support for users to clear NVRAM using MRSA and storcli Factory Repurpose operation.
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  - After clearing NVRAM, controller FW performs Online Controller Reset (OCR). If for some reason OCR cannot be performed, then the user will be notified to perform a system reboot.
  - The Clear NVRAM operation is equivalent to Redfish ResetToDefaults.ResetAll operation functionally.
- o Change the backplane bay count information to the actual bay that is connected to controller. For non-hotplug configuration, controller always shows 16 bays.

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Firmware Package - HPE MR416i-a Gen10 Plus Tri Mode Controller

### **Important Note!**

- o **This firmware version to be used on HPE MR416i-a Gen10 Plus Controller.**

### **Prerequisites**

iLO5 version should be at least 2.98 is required for **chassis&Fabric support**.

### **Fixes**

- o Fix a00143124en\_us Advisory: HPE MR Gen11 Controller - MR Gen11 Controllers on HPE Gen11 Servers May Fail to Generate "WriteCacheDataLoss" in the IML
- o Fix a00148035en\_us Advisory: HPE MR Gen11 Controllers - The Bay And Box NVMe Drive Location Is Not Displayed in the One-Time Boot Menu
- o Fix an issue that Read/Write transfers over 128KB on LTO fail in Linux OS
- o Fix an issue that Backup Exec doesn't work with LTO
- o Fix an issue that controller might be dropped by the iLO in server boot up when there are 240 Logical Drives are configured
- o Fix a rare issue that server health shows critical temporally when remove drive continuously.
- o Fix an issue that unexpected PCIConfiglink page events, Task management to the virtual SES device time out messages are logged in snapdump
- o Fix an issue that Slot capable protocol is missing for empty bay
- o Fix an issue that Link Speed for LTO connected to controller shows Unknown
- o Fix an issue that Request Sense command causes task management on the drive where sanitization is in progress.
- o Fix an issue that Redfish PATCH StorageController[ControllerRates] silently sets random values when the value beyond 255 is used.
- o Fix an issue that incorrect controller error event may be logged when controller is configured as passthrough and do vm reboot
- o Fix an issue that active width, current speed are wrong in Redfish Fabric port when two backplanes connected to same storage port.
- o Fix a rare issue that NVMe drive link status may fail after reboot
- o Fix a rare issue that controller may assert when there are multiple drives removed and inserted in a short time
- o Fix an issue that sanitize percentage does not progress on SATA drives if there is SATA passthrough command running
- o Fix an issue that sanitize percentage does not progress on NVMe drives
- o Fix a rare issue that IO timeout and device reset may occur with stress test of Read/Write and Non-Read/Write commands

### **Enhancements**

- o DMTF PLDM Redfish Device Enablement enhancements
  - Redfish Volume Transformation Support
    - POST #Volume.ChangeRAIDLAYOUT: RAID Layout Change. Change in the RAID Layout is achieved by providing the target RAIDType and the list of the drives in the input JSON body.
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    - Each counter can hold a value up to 65535. Once the counter reaches the maximum value the value is not reset.
    - Metrics are cleared when user performs Controller NVRAM clear or Redfish ResetToDefaults.ResetAll.
- o Add support for users to clear NVRAM using MRSA and storcli Factory Repurpose operation.
  - Clear NVRAM operation is not allowed if there is any configuration present on the controller or if there is any pinned cache.
  - After clearing NVRAM, controller FW performs Online Controller Reset (OCR). If for some reason OCR cannot be performed, then the user will be notified to perform a system reboot.
  - The Clear NVRAM operation is equivalent to Redfish ResetToDefaults.ResetAll operation functionally.
- o Change the backplane bay count information to the actual bay that is connected to controller. For non-hotplug configuration, controller always shows 16 bays.

### **Important Note!**

- o **This firmware version to be used on HPE MR416i-p Gen10 Plus Controller.**

### **Prerequisites**

iLO5 version should be at least 2.98 is required for **chassis&Fabric support**.

### **Fixes**

- o Fix a00143124en\_us Advisory: HPE MR Gen11 Controller - MR Gen11 Controllers on HPE Gen11 Servers May Fail to Generate "WriteCacheDataLoss" in the IML
- o Fix a00148035en\_us Advisory: HPE MR Gen11 Controllers - The Bay And Box NVMe Drive Location Is Not Displayed in the One-Time Boot Menu
- o Fix an issue that Read/Write transfers over 128KB on LTO fail in Linux OS
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## Enhancements

- DMTF PLDM Redfish Device Enablement enhancements
  - Redfish Volume Transformation Support
    - POST #Volume.ChangeRAIDLAYOUT: RAID Layout Change. Change in the RAID Layout is achieved by providing the target RAIDType and the list of the drives in the input JSON body.
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    - StorageControllerMetrics: UncorrectableECCErrorCount, CorrectableECCErrorCount, CorrectableParityErrorCount, StateChangeCount
    - PortMetrics: SAS.InvalidDwordCount, SAS.LossOfDwordSynchronizationCount, SAS.RunningDisparityErrorCount, PCIeErrors.CorrectableErrorCount, PCIeErrors.FatalErrorCount, PCIeErrors.NonFatalErrorCount
    - Each counter can hold a value up to 65535. Once the counter reaches the maximum value the value is not reset.
    - Metrics are cleared when user performs Controller NVRAM clear or Redfish ResetToDefaults.ResetAll.
- Add support for users to clear NVRAM using MRSA and storcli Factory Repurpose operation.
  - Clear NVRAM operation is not allowed if there is any configuration present on the controller or if there is any pinned cache.
  - After clearing NVRAM, controller FW performs Online Controller Reset (OCR). If for some reason OCR cannot be performed, then the user will be notified to perform a system reboot.
  - The Clear NVRAM operation is equivalent to Redfish ResetToDefaults.ResetAll operation functionally.
- Change the backplane bay count information to the actual bay that is connected to controller. For non-hotplug configuration, controller always shows 16 bays.

Firmware Package - HPE SR932i-p Gen10 Plus /SR416i-a Gen10 Plus/SR932i-p Gen11/SR416ie-m Gen11 Controllers

Version: 03.01.41.032 **(Recommended)**

Filename: HPE\_SR416\_SR932\_Gen10P\_Gen11\_03.01.41.032\_A.fwpkg

## Important Note!

- HPE Service Pack for ProLiant (SPP) provides a fully qualified recipe for specific firmware and drivers released within the same cycle, making it the primary recommended choice.
- It is strongly recommended to use controller firmware version 7.81 for SR SAS/SATA controllers and firmware version 03.01.41.032 for SR tri-mode controllers, along with Windows driver version 1016.24.0.1002, Linux driver version 2.1.36-026, and VMware ESXi driver version 4862.0.104, as this combination has been fully qualified.

## Fixes

- Fixed an issue where SEDs reverting to foreign after controller reboot due to the otherwise owned flag not being saved to the datastore.
- Fixed an issue where multiple logical drives incorrectly showing REBUILDING simultaneously due to rebuild status not being updated properly during queued transformation and rebuild processes
- Fixed an issue where master key change failure on Managed SED logical drives due to LU cache flush requests conflicting with the password update process.
- Fixed an issue where physical drive Predictive Failure status not reported correctly by tools and iLO.
- Fixed an issue where controller lockup during surface scan caused by stale internal resources when handling Unrecoverable Read Errors (UREs) in unmapped logical drive regions.
- Fixed an issue where drives being incorrectly failed during hot-plug due to UBM backplane misreporting drive status, with firmware workaround to wait for corrected reporting.
- Fixed an issue where drive LED was being changed unexpectedly by preventing redundant LED commands when the current state already matches the target state.
- Fixed an issue where NVMe drives being dropped after SEP firmware update and reset in mixed SAS/SATA and NVMe topologies due to missed hot plug events.
- Fixed an issue where SATA drives could be incorrectly reported as hot-removed during spin-up by adjusting the dampen timer to align with vendor-specified TTR values.
- Fixed an issue that could cause NVMe drive discovery to report incorrect information due to VPD read data length and device handle conversion errors.
- Fixed an issue where the controller could lock up after a warm boot following a SAS Expander firmware update.
- Fixed an issue where Micron 6550 SED drives could fail to create a Secured Volume due to insufficient timeout during the TCG Revert process.
- Fixed an issue where the controller could lock up (0x1E30) under high I/O workloads when configuration changes occurred simultaneously with a LUN reset.
- Fixed an issue where RAID 0 could hang with I/O timeouts and LUN resets during Predictive Spare Rebuild.
- Fixed an issue where the controller Health state from PLDM PDRs could differ from the Storage.Status.HealthRollup value in RDE, by synchronizing the reporting logic.
- Fixed an issue where SSD firmware updates could fail in dual path configurations due to PLDM errors, by sending Test Unit Ready commands to clear check conditions before SCSI passthrough operations.
- Fixed an issue where Battery Redfish Alerts contained an incorrect OriginOfCondition pointing to a StorageController instead of the Battery resource.
- Fixed an issue where RDE UPDATE operations on a Volume's ReadCachePolicy could incorrectly appear successful during a CBE rekey, by adjusting the cache update logic to return accurate results regardless of cache status.
- Fixed an issue where the HotspareActivationPolicy allowable values incorrectly included OnDriveFailure for RAID 0 volumes with a dedicated spare, by adding configuration checks to ensure only valid values are shown.
- Fixed an issue where there is a mismatch in Overall Health State and Logical Volume State during RPI, with sensors reporting Warning (Overall Health) while RDE READs ( Logical Volume State) showed OK; reporting OK during RPI is expected behavior.
- Fixed an issue where firmware updates on SR932 Gen11 controllers could get stuck in the APPLY state when using PLDM Type 5. The firmware now pauses background activities during image flashing to ensure timely completion.
- Fixed an issue where ProtectedWriteBack could incorrectly appear as an allowable WriteCachePolicy in RDE READs even without a backup power source, by requiring the power source to be connected and fully charged before publishing the option.
- Fixed an issue where an RDE READ on certain unsupported Drive resources could cause a controller lockup, by adding bounds checking in the firmware API.
- Fixed an issue where deleting volumes through PLDM Type 6 could cause a controller lockup if other PLDM commands were sent simultaneously. These commands now return NOT\_READY when a long-running RDE operation is in progress.
- Fixed an issue where disk utilities could display an invalid box number for drives after failing over to an alternative path, by ensuring only valid controller-provided information is shown.
- Fixed an issue where an incorrect error message was shown in HII when creating a logical drive on a locked SED, by updating the error message to correctly reflect SED encryption.

## Enhancements

- Enhanced functionality to expose the NVMe drive form factor based on the NVMe-MI specification
- Optimized drive temperature checking for expander-based topologies.
- Added support to write transformation backup data to an additional drive that is part of a fault-tolerant RAID volume to ensure data redundancy.
- Added SSD life expectancy monitoring.
- Added support to require privileged operations token for all RDE ACTION operations, including Drive.Reset and Storage.SetEncryptionKey, improving security for data-destructive actions.
- Added support to provide meaningful update Interval values for Numeric Sensor PDRs, setting 5 seconds for controller temperature and 60 seconds for drive temperature sensors.

- o Enhanced the calculation of CapacityBytes@Redfish.AllowableNumbers for Volume Capabilities. The maximum allowable value is now set to the larger of (a) the largest free space range on any existing array, or (b) the sum of unassigned drives with a common interface and media type.
- o Enhanced DriveMetrics support by updating the schema version from 1.0.0 to 1.2.0, adding reporting for ReadIOMBytes and WriteIOMBytes properties.
- o Added an enhancement to display drive vendor and model name as separate fields in the Disk Information menu, improving clarity and ease of drive identification.
- o Added support to securely transfer encryption keys in remote key management mode.
- o Enhanced drive writes cache status reporting in HII.

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HPE D3600/D3700/D3610/D3710 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)

Version: 5.04 (M) (**Recommended**)

Filename: CP067860.compsig; CP067860.md5; CP067860.zip

### **Important Note!**

**IMPORTANT:** Firmware updates must be performed during a system maintenance window, with all I/O to the system halted. In single domain configuration, if user hosts an OS in D3000(or any storage box) and flash the SEPs, it will hang/crash everytime as SmartComponent will reset the SEPs after flash/codeload.

**WARNING!** Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

**NOTE:** All firmware flash progress messages are logged to /var/cpq/D3000.log and flash summary is logged to /var/cpq/Component.log.

### **Prerequisites**

IMPORTANT: Firmware updates must be performed during a system maintenance window, with all I/O to the system halted.

WARNING! Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

NOTE: All firmware flash progress messages are logged to /var/cpq/D3000.log and flash summary is logged to /var/cpq/Component.log.

### **Fixes**

**The following fixes were incorporated in this version:**

- o The Enabled-ClusterS2D command now completes successfully when executed on a SATA drive within a D3610 disk enclosure for a NonStop solution.
- o The smart carrier, which is the drive case for SAS drives, now authenticates in the D3610/D3710 drive enclosure.
- o Added new 7-segment error codes E0 and E1 to report issues with Fan modules A and B, respectively. These new codes only apply to the D3610/D3710 and only display when running firmware 5.04.
- o If the storage enclosure processor within the I/O module fails, a hard reset (power down and then power up) is executed to ensure the processor comes back online.

Please refer to the [Release Notes](#) for the complete listing of fixes, enhancements, known issues and work-arounds corresponding to this firmware.

### **Enhancements**

Added support of ESXi 9.0

Removed support of ESXi 7.0

### **Supported Devices and Features**

The D3600 / D3700 / D3610 / D3710 Enclosure can be attached to any of the following HPE Storage Controllers and Host Bus Adapters :

- o Smart Array P408e-p Controller
- o Smart Array E208e-p Controller

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HPE D3610B/D3710B 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)

Version: 6.00 (G) (**Recommended**)

Filename: CP067865.compsig; CP067865.md5; CP067865.zip

### **Important Note!**

**IMPORTANT:** Firmware updates must be performed during a system maintenance window, with all I/O to the system halted. In single domain configuration, if user hosts an OS in D3000B(or any storage box) and flash the SEPs, it will hang/crash everytime as SmartComponent will reset the SEPs after flash/codeload.

**WARNING!** Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

**NOTE:** All firmware flash progress messages are logged to /var/cpq/D3000B.log and flash summary is logged to /var/cpq/Component.log.

### **Prerequisites**

IMPORTANT: Firmware updates must be performed during a system maintenance window, with all I/O to the system halted.

WARNING! Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

NOTE: All firmware flash progress messages are logged to /var/cpq/D3000B.log and flash summary is logged to /var/cpq/Component.log.

### **Fixes**

**The following fixes were incorporated in this version:**

- o Code optimization to save memory repo.

- TLB exception seen while doing esp reset when expander reset was in progress.
- Added the psoc 8.93 binary in peripheral images, updated the reveille version numbers.
- Added whole new Delta PS-pmbus code , Updated the ESP version number.

Please refer to the [Release Notes](#) for the complete listing of fixes, enhancements, known issues and work-arounds corresponding to this firmware.

### **Enhancements**

Added support of ESXi 9.0

Removed support of ESXi 7.0

### **Supported Devices and Features**

The D3610B / D3710B Enclosure can be attached to any of the following HPE Storage Controllers and Host Bus Adapters :

- Smart Array P408e-p Controller
- Smart Array E208e-p Controller

---

HPE D6020 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)

Version: 2.74 (T) **(Recommended)**

Filename: CP067869.compsig; CP067869.md5; CP067869.zip

### **Important Note!**

**IMPORTANT:** Firmware updates must be performed during a system maintenance window, with all I/O to the system halted. In single domain configuration, if user hosts an OS in D6020(or any storage box) and flash the SEPs, it will hang/crash everytime as SmartComponent will reset the SEPs after flash/codeload.

**WARNING!** Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

**NOTE:** All firmware flash progress messages are logged to /var/cpq/D6020.log and flash summary is logged to /var/cpq/Component.log.

### **Prerequisites**

IMPORTANT: Firmware updates must be performed during a system maintenance window, with all I/O to the system halted.

WARNING! Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

NOTE: All firmware flash progress messages are logged to /var/cpq/D6020.log and flash summary is logged to /var/cpq/Component.log.

### **Fixes**

**The following fixes were incorporated in this version:**

- Temperature sensors logic inside gSEP model and SES database
- When an IOM is pulled the surviving IOM reports false critical temperatures

Please refer to the [Release Notes](#) for the complete listing of fixes, enhancements, known issues and work-arounds corresponding to this firmware.

### **Enhancements**

Added support of ESXi 9.0

Removed support of ESXi 7.0

### **Supported Devices and Features**

The D6020 Enclosure can be attached to any of the following HPE Storage Controllers and Host Bus Adapters :

- Smart Array P408e-p Controller
- Smart Array E208e-p Controller

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HPE D8000 12Gb SAS Disk Enclosure ROM Flash Component for VMware (ESXi)

Version: 0130 (H) **(Recommended)**

Filename: CP067871.compsig; CP067871.md5; CP067871.zip

### **Important Note!**

**IMPORTANT:** Firmware updates must be performed during a system maintenance window, with all I/O to the system halted. In single domain configuration, if user hosts an OS in D8000(or any storage box) and flash the SEPs, it will hang/crash everytime as SmartComponent will reset the SEPs after flash/codeload.

**WARNING!** Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

**NOTE:** All firmware flash progress messages are logged to /var/cpq/D8000.log and flash summary is logged to /var/cpq/Component.log.

### **Prerequisites**

IMPORTANT: Firmware updates must be performed during a system maintenance window, with all I/O to the system halted.

WARNING! Do not power cycle or restart during the firmware update as this can result in loss of capabilities for this unit. It typically takes several minutes for the firmware to load.

NOTE: All firmware flash progress messages are logged to /var/cpq/D8000.log and flash summary is logged to /var/cpq/Component.log.

## **Fixes**

The following fixes were incorporated in this version:

- Smart Array reporting "Storage Enclosure FW upgrade Problem Detected".
- PSU version is showing as "No Ver" after inserted the New bel power PSU.
- GEM\_5\_2 Coverity defect fix.

Please refer to the [Release Notes](#) for the complete listing of fixes, enhancements, known issues and work-arounds corresponding to this firmware.

## **Enhancements**

Added support of ESXi 9.0

Removed support of ESXi 7.0

## **Supported Devices and Features**

The D8000 Enclosure can be attached to any of the following HPE Storage Controllers and Host Bus Adapters :

- HPE Smart Array P408e-p Controller
- HPE Smart Array E208e-p Controller

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Online Firmware Flash for ESXi - HPE Gen11 Boot Controller NS204i-u, NS204i-d and HPE Gen10 Plus Boot Controller NS204i-p, NS204i-d  
Version: 1.2.14.1018 (C) **(Recommended)**  
Filename: CP067921.compsig; CP067921.zip

## **Enhancements**

- Remove 2 EOL NS204i controllers.

---

Online ROM Flash Component for VMware ESXi - HPE 12Gb/s SAS Expander Firmware for HPE Smart Array Controllers and HPE HBA Controllers  
Version: 5.15 (C) **(Recommended)**  
Filename: CP064922.compsig; CP064922.zip

## **Important Note!**

- **Do NOT downgrade FW to previous version if your current expander is 5.10; please upgrade to 5.15 immediately.**

## **Enhancements**

- Added ESXi9.0 support.

---

Online ROM Flash Component for VMware ESXi - HPE Apollo 2000 Gen10 Plus Backplane Expander FW  
Version: 1.27 (C) **(Recommended)**  
Filename: CP064920.compsig; CP064920.zip

## **Enhancements**

- Added ESXi9.0 support.

---

Online ROM Flash Component for VMware ESXi - HPE Apollo 4200 Gen10 Plus Backplane Expander Firmware  
Version: 0.39 (D) **(Recommended)**  
Filename: CP064921.compsig; CP064921.zip

## **Prerequisites**

- Before upgrading to 0.39(D), please flash to the transition version 0.39 first by standalone update approach to activate the new PID naming.
- 0.39(B) is the minimum version for Gen10plus 4200 expander FW.
- **0.39 transition version link:** <https://www.hpe.com/global/swpublishing/MTX-baec686eb389427aa933bbf9f0>

## **Enhancements**

- Support ESXi9.0 OS.

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Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, E208i-p, E208e-p, E208i-a, P816i-a SR Gen10 Controllers  
Version: 7.81 **(Recommended)**  
Filename: CP067594.compsig; CP067594.zip

## **Important Note!**

- HPE Service Pack for ProLiant (SPP) provides a fully qualified recipe for specific firmware and drivers released within the same cycle, making it the primary recommended choice.
- It is strongly recommended to use controller firmware version 7.81 for SR SAS/SATA controllers and firmware version 03.01.41.032 for SR tri-mode controllers, along with Windows driver version 1016.24.0.1002, Linux driver version 2.1.36-026, and VMware ESXi driver version 4862.0.104, as this combination has been fully qualified.
- FWPKG support for PLDM firmware upgrades was introduced. As a transition point, both OS-dependent, offline smart components and OS-independent FWPKG for PLDM firmware package updates were made available. From firmware versions later than 5.61, OS-dependent smart and offline components can only be used on DL325 and DL385 Gen10 with AMD EPYC 7xx2 Series Processors servers due to limitations associated with the PLDM Firmware Package Upgrade. Ref customer advisory [a00119198en-us](#). For servers other than DL325 and DL385 Gen10 with AMD EPYC 7xx2 Series Processors, please use OS-independent FWPKG for PLDM firmware package updates after firmware version 5.61.

Fixes

- Fixed an issue where SEDs reverting to foreign after controller reboot due to the otherwise owned flag not being saved to the datastore.
- Fixed an issue where firmware crash/lockup during NDSR (Non-Disruptive Software Reset) due to a NULL pointer reference when handling a failed drive during logical drive rebuild.
- Fix 4Kn foreign SED being imported into a 512B logical drive due to incorrect failure handling, which could start a rebuild on an incompatible drive and ultimately fail.
- Fixed an issue where multiple logical drives incorrectly showing REBUILDING simultaneously due to rebuild status not being updated properly during queued transformation and rebuild processes
- Fixed an issue where master key change failure on Managed SED logical drives due to LU cache flush requests conflicting with the password update process.
- Fixed an issue where physical drive Predictive Failure status not reported correctly by tools and iLO.
- Fixed an issue where controller lockup during surface scan caused by stale internal resources when handling Unrecoverable Read Errors (UREs) in unmapped logical drive regions.
- Fixed an issue where uncorrectable DDR ECC errors could be reported at boot due to cache being accessed before initialization.
- Fixed an issue where the controller could lock up (0x3120C) when enabling MCP due to duplicate routing entries from flooded BMC requests.
- Fixed an issue where SATA drives could be incorrectly reported as hot-removed during spin-up by adjusting the dampen timer to align with vendor-specified TTR values.
- Fixed an issue where the controller could lock up (0x1E30) under high I/O workloads when configuration changes occurred simultaneously with a LUN reset.
- Fixed an issue where RAID 0 could hang with I/O timeouts and LUN resets during Predictive Spare Rebuild.
- Fixed an issue where the RAID controller could incorrectly report Online Firmware Activation as enabled. Firmware now checks support during PQI initialization and sets or clears the feature flags accordingly.
- Fixed an issue where drives in some enclosures could show bay number 255 after the enclosure was powered on and hot-plugged, by adding handling for additional SCSI not ready status codes until the enclosure becomes ready.
- Fixed an issue where Micron 6550 SED drives could fail to create a Secured Volume due to insufficient timeout during the TCG Revert process.
- Fixed an issue where the controller Health state from PLDM PDRs could differ from the Storage.Status.HealthRollup value in RDE, by synchronizing the reporting logic.
- Fixed an issue where SSD firmware updates could fail in dual path configurations due to PLDM errors, by sending Test Unit Ready commands to clear check conditions before SCSI passthrough operations.
- Fixed an issue where Battery Redfish Alerts contained an incorrect OriginOfCondition pointing to a StorageController instead of the Battery resource.
- Fixed an issue where RDE UPDATE operations on a Volume's ReadCachePolicy could incorrectly appear successful during a CBE rekey, by adjusting the cache update logic to return accurate results regardless of cache status.
- Fixed an issue where the HotspareActivationPolicy allowable values incorrectly included OnDriveFailure for RAID 0 volumes with a dedicated spare, by adding configuration checks to ensure only valid values are shown.
- Fixed an issue where there is a mismatch in Overall Health State and Logical Volume State during RPI, with sensors reporting Warning (Overall Health) while RDE READs ( Logical Volume State) showed OK; reporting OK during RPI is expected behavior.
- Fixed an issue where ProtectedWriteBack could incorrectly appear as an allowable WriteCachePolicy in RDE READs even without a backup power source, by requiring the power source to be connected and fully charged before publishing the option.
- Fixed an issue where an RDE READ on certain unsupported Drive resources could cause a controller lockup, by adding bounds checking in the firmware API.
- Fixed an issue where deleting volumes through PLDM Type 6 could cause a controller lockup if other PLDM commands were sent simultaneously. These commands now return NOT\_READY when a long-running RDE operation is in progress.
- Fixed an issue where disk utilities could display an invalid box number for drives after failing over to an alternative path, by ensuring only valid controller-provided information is shown.
- Fixed an issue where an incorrect error message was shown in HII when creating a logical drive on a locked SED, by updating the error message to correctly reflect SED encryption.

Enhancements

- Added SSD life expectancy monitoring.
- Added support to require privileged operations token for all RDE ACTION operations, including Drive.Reset and Storage.SetEncryptionKey, improving security for data-destructive actions.
- Added support to provide meaningful updateInterval values for Numeric Sensor PDRs, setting 5 seconds for controller temperature and 60 seconds for drive temperature sensors.
- Enhanced the calculation of CapacityBytes@Redfish.AllowableNumbers for Volume Capabilities. The maximum allowable value is now set to the larger of (a) the largest free space range on any existing array, or (b) the sum of unassigned drives with a common interface and media type.
- Enhanced DriveMetrics support by updating the schema version from 1.0.0 to 1.2.0, adding reporting for ReadIOPKiBytes and WriteIOPKiBytes properties.
- Added an enhancement to display drive vendor and model name as separate fields in the Disk Information menu, improving clarity and ease of drive identification.
- Added support to securely transfer encryption keys in remote key management mode.
- Enhanced drive writes cache status reporting in HII.

Online ROM Flash Component for VMware ESXi - HPE Smart Array P816i-a,P416ie-m,P408i-p, P408e-p, P408i-a,P408i-c,P204i-c,E208i-p, E208e-p, E208i-a, P208i-c SR Gen10  
Version: 5.61 (E) (**Recommended**)  
Filename: CP064739.compsig; CP064739.zip

Enhancements

- Added ESXi9.0 support.

**Firmware - Storage Fibre Channel** [Top](#)  
HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 8.0  
Version: 2025.11.01 (**Recommended**)  
Filename: CP068477.compsig; CP068477.zip

Important Note!

Release notes:

[Broadcom Release notes](#)

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	16Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	16Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0

HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0

### Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:

<http://www.hpe.com/storage/spock/>

### Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	16Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	16Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.731.5	14.4.731.5	14.4.716.0	14.4.718.0

### Supported Devices and Features

This component is supported on following Emulex Fibre Channel Host Bus adapters:

#### 16Gb FC Adapter:

- HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter

#### 32Gb FC Adapter:

- HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1610E 32Gb Dual port Fibre Channel Host Bus Adapter
- HPE SN1610E 32Gb Single port Fibre Channel Host Bus Adapter

#### 64Gb FC Adapter:

- HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter

HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 8.0

Version: 2025.11.01 **(Recommended)**

Filename: CP068324.compsig; CP068324.zip

### Important Note!

Release Notes:

[HPE QLogic Adapters Release Notes](#)

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter	16Gb	02.05.01	9.15.05	7.28	3.68
HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter	16Gb	02.05.01	9.15.05	7.28	3.68
HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.05.01	9.15.05	7.28	3.68
HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.05.01	9.15.05	7.28	3.68
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.11.09	09.15.15	7.39	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.11.09	09.15.15	7.39	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.11.09	09.15.15	7.39	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.11.09	09.15.15	7.39	0.0

### Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:

<http://www.hpe.com/storage/spock/>

### Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter	16Gb	02.05.01	9.15.05	7.28	3.68

HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter	16Gb	02.05.01	9.15.05	7.28	3.68
HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.05.01	9.15.05	7.28	3.68
HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.05.01	9.15.05	7.28	3.68
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.11.09	09.15.15	7.39	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.11.09	09.15.15	7.39	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.11.09	09.15.15	7.39	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.11.09	09.15.15	7.39	0.0

**Supported Devices and Features**

This component is supported on following Qlogic Fibre Channel Host Bus adapters:

**16Gb Fibre Channel Host Bus Adapter:**

- o HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter
- o HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

**32Gb Fibre Channel Host Bus Adapter:**

- o HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- o HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- o HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- o HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter

**64Gb Fibre Channel Host Bus Adapter:**

- o HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
- o HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

Software - Management

Top

HPE iLO Driver Bundle Smart Component for ESXi 8.0 and ESXi 9.0  
Version: 2025.11.00 **(Recommended)**  
Filename: cp068902.compsig; cp068902.zip

**Fixes**

Implement MSI interrupt in the ilo driver to fix PSOD due to interrupt storm and to fix snmpwalk delays.

Smart Storage Administrator (SSA) CLI Smart Component for ESXi 8.0 for Gen10/Gen10 Plus/Gen11 Controllers  
Version: 2025.09.01 **(Recommended)**  
Filename: cp065587.compsig; cp065587.zip

**Important Note!**

- o Actual ESXi Version is 6.50.11.0

**Fixes**

- o Fixed the “Parity Initialization Method” information displayed for non-parity RAID levels.
- o Fixed an issue where users were unable to clear the controller’s configuration when a foreign volume was present.
- o Fixed an issue where a foreign-owned SED drive was being listed for array creation.
- o Fixed an issue where the last failure reason was not listing on physical drives.
- o Fixed an issue where SSAScripting failed to create an encrypted volume while in express local mode.
- o Fixed an issue where an error/warning message was not being generated correctly while expanding a RAID 1+0 volume.
- o Fixed an issue where a duplicate entry for the physical drive was displayed.

Software - Storage Controller

Top

HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)  
Version: 2025.08.01 **(Recommended)**  
Filename: cp067756.compsig; cp067756.zip

**Important Note!**

- o Actual ESXi Version is 007.3212.0000.0000

**Enhancements**

- o Add support for users to clear NVRAM using Factory Repurpose operation
  - Command: storcli /cx set factory repurpose

Software - Storage Fibre Channel

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HPE QLogic Fibre Channel driver component for VMware vSphere 8.0  
Version: 2024.03.01 **(Recommended)**  
Filename: cp059844.compsig; cp059844.zip

**Important Note!**

Release Notes:  
[HPE QLogic Adapters Release Notes](#)

This component is intended to be used by HPE applications. It is a zip that contains the same driver deliverable available from the vmware.com and the HPE vibsddepot.hpe.com webpages, plus an HPE specific CPXXXX.xml file.

### **Prerequisites**

Please consult SPOCK for a list of supported configurations available at the following link:

<http://www.hpe.com/storage/spock/>

### **Fixes**

Fixed an issue where driver logs a 4003 event in ESXi 8.0U2 during server power on, it happens as driver is unable to initialize the adapter due to a "false" checksum.

### **Enhancements**

Driver version 5.4.82.1

Fixed an issue where driver logs a 4003 event in ESXi 8.0U2 during server power on, it happens as driver is unable to initialize the adapter due to a "false" checksum.

### **Supported Devices and Features**

This component is supported on following Qlogic Fibre Channel Host Bus adapters:

#### **16Gb Fibre Channel Host Bus Adapter:**

- o HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter
- o HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

#### **32Gb Fibre Channel Host Bus Adapter:**

- o HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- o HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- o HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- o HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter

#### **64Gb Fibre Channel Host Bus Adapter:**

- o HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
- o HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter

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HPE QLogic Fibre Channel driver component for VMware vSphere 8.0

Version: 2025.05.01 **(Recommended)**

Filename: cp066315.compsig; cp066315.zip

### **Important Note!**

Release Notes:

[HPE QLogic Adapters Release Notes](#)

This component is intended to be used by HPE applications. It is a zip that contains the same driver deliverable available from the vmware.com and the HPE vibsddepot.hpe.com webpages, plus an HPE specific CPXXXX.xml file.

This driver is only supported on VMware ESXi 8.0u3

### **Prerequisites**

Please consult SPOCK for a list of supported configurations available at the following link:

<http://www.hpe.com/storage/spock/>

### **Enhancements**

Driver version 5.4.85.0-1

This driver is only supported on VMware ESXi 8.0u3

### **Supported Devices and Features**

This component is supported on following Qlogic Fibre Channel Host Bus adapters:

#### **16Gb Fibre Channel Host Bus Adapter:**

- o HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter
- o HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

#### **32Gb Fibre Channel Host Bus Adapter:**

- o HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- o HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- o HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter
- o HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter

#### **64Gb Fibre Channel Host Bus Adapter:**

- o HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter
  - o HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter
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## Software - System Management

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HPE Agentless Management Bundle for ESXi for HPE Gen10 and Gen10 Plus Servers

Version: 802.11.12.0 **(Recommended)**

Filename: amsdComponent\_802.11.12.0.4-1-signed\_component.zip

### Fixes

See the [AMS Release Notes](#) for information about the issues resolved in this release.

### Enhancements

See the [AMS Release Notes](#) for information about the enhancements in this release.

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HPE Agentless Management Bundle Smart Component on ESXi for Gen10 and Gen10 Plus Servers

Version: 2025.11.01 **(Recommended)**

Filename: cp069193.compsig; cp069193.zip

### Fixes

See the [AMS Release Notes](#) for information about the issues resolved in this release.

### Enhancements

See the [AMS Release Notes](#) for information about the enhancements in this release.

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