



Component Compatibility Guide



Storage and network adapters compatible with Oracle VM and Oracle Linux with the Unbreakable Enterprise Kernel.

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STORAGE AND NETWORK ADAPTER SUPPORT IN UEK

Oracle Linux (x86_64), Oracle Linux KVM, and Oracle VM support common storage and networking adapters used in large enterprises and data centers. Oracle Linux with the Unbreakable Enterprise Kernel (UEK) and Oracle VM support in-distribution device drivers, commonly known as inbox drivers. Oracle does not provide support for device driver packages obtained from other sources.

Oracle and the device manufactures jointly support the devices herein. This is not a comprehensive list of all supported adapters. At the discretion of Oracle Support, Oracle may provide customer assistance with adapters not listed in this document. However, Oracle cannot guarantee issue resolution for adapters not tested and supported by Oracle and the adapter manufacturer/reseller.

Storage and networking adapters purchased from your system provider, often as components configured in a system purchase, are outside the scope of this document. For information about operating system compatibility of devices branded and marketed by your system provider, consult with that system provider. Oracle and the system providers support adapters qualified by the system providers.

This document includes information for Oracle Linux (x86_64) with UEK Release 4 and later. The minimum UEK version indicates the earliest supported version for the major UEK release specified. Support also applies to subsequent updates and errata to the minimum required UEK versions. Adapter firmware is outside the scope of this document, and supported in accordance with the manufacturer and resellers recommendation.

Customers deploying Oracle Database and Oracle Real Application Clusters (RAC) on any Linux distribution, including Oracle Linux, are urged to review [My Oracle Support \(MOS\)](#) for information about the networking protocols supported by Oracle Database.

The use of any RDMA protocol (including InfiniBand and RoCE) to attach storage to an Oracle engineered system is not supported. For environments *other* than Oracle engineered systems, the use of SRP in Oracle Database and RAC environments and the use of RoCE as a transport for NVMe over RoCE in Oracle Database and RAC environments is supported; this support is (a) available only on specific devices, and (b) available for Oracle Linux with UEK R6 and UEK R7.

Always refer to [MOS](#) content for any known issues related to an adapter.

The information in this document is subject to change without notice, and Oracle shall not be liable for technical or editorial errors or omissions. Nothing herein should be construed as constituting any warranty.

Resources

- Oracle Linux oracle.com/linux
- Virtualization oracle.com/virtualization
- Hardware Compatibility (HCL) linux.oracle.com/hardware-certifications
- ISV Catalog oracle.com/linux/isvcatalog

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UEK Version Key and Supported Network Speed

Major Version	Update/Errata Version Key	Supported Network Speed	Applicable Release(s)
UEK Release 7	5.15.0-x.y.z where x.y.z represents updates and errata to UEK R7	200GbE	Oracle Linux 8, Oracle Linux 9
UEK Release 6	5.4.17-x.y.z, where x.y.z represents updates and errata to UEK R6	200GbE	Oracle Linux 7, Oracle Linux 8
UEK Release 5	4.14.35-x.y.z where x.y.z represent updates and errata to UEK R5	100GbE	Oracle Linux 7
UEK Release 4	4.1.12-x.y.z, where x.y.z represent updates and errata to UEK R4	50GbE	Oracle VM 3.4, Oracle Linux 6, Oracle Linux 7

UEK Release 7

Section 1: Storage

Vendor	Adapter	Minimum UEK Version
Broadcom Limited	Emulex® LightPulse® LPe12000 8Gb Fibre Channel Adapter Model(s) LPe12000, LPe12002, LPe12004, LPe1250 Note: End of life. No support with Oracle Linux 9.	5.15.0-0
Broadcom Limited	Emulex® LightPulse® LPe16000 Fibre Channel Adapter (Gen5) Model(s) LPe16002, LPe16000B, LPe16002B, LPe16004 Note: End of life. No support with Oracle Linux 9.	5.15.0-0
Broadcom Limited	Emulex® LightPulse® LPe31000/32000 Fibre Channel Adapter (Gen6) Model(s) LPe31000-M6, LPe31002-M6, LPe31004-M6 Note: Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.15.0-0
Broadcom Limited	Emulex® LightPulse® LPe31000/32000 Fibre Channel Adapter (Gen6) Model(s) LPe32000-M2, LPe32002-M2, LPe32004-M2 Note: Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.15.0-0
Broadcom Limited	Emulex® LightPulse® LPe35000/36000 Fibre Channel Adapter (Gen7) Model(s) LPe35000-M2, LPe35002-M2 Note: Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.15.0-100
Broadcom Limited	Emulex® LightPulse® LPe35000/36000 Fibre Channel Adapter (Gen7) Model(s) LPe35004-M2 Note: Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.15.0-100
Broadcom Limited	Emulex® LightPulse® LPe35000/36000 Fibre Channel Adapter (Gen7) Model(s) LPe36000-M64, LPe36002-M64 Note: Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.15.0-100
Intel	Intel® Ethernet Server Adapter I350 Family Model(s) I350-F2, I350-F4, I350-T2V2, I350-T4V2 (iSCSI)	5.15.0-0
Intel	Intel® Network Adapter 500 Series Model(s) X520-DA2, X520-SR2, X520-SR1, X540-T1, X540-T2, X550-T2, X550-T1 (FCoE)	5.15.0-0
Intel	Intel® Network Adapter 500 Series Model(s) X520-DA2, X520-SR2, X520-SR1, X540-T1, X540-T2, X550-T2, X550-T1 (iSCSI)	5.15.0-0
Intel	Intel® Network Adapter 700 Series Model(s) X722-DA4, X722-DA2 (discontinued models) (iSCSI) Note: No support for Oracle Linux 9.	5.15.0-0
Intel	Intel® Network Adapter 700 Series Model(s) XXV710-DA1, XXV710-DA2 (iSCSI)	5.15.0-0

Marvell	Marvell® FastLinQ 41000 Series Multiport 10/25/50Gb Ethernet Adapters Model(s) QL41162 (10GbE); QL41254, QL41262 (10/25GbE) (iSCSI) Note: Ethernet support only (no RDMA). Marvell EOL, no support in OL9 and later. No support for HPE Synergy.	5.15.0-0
Marvell	Marvell® FastLinQ 41000 Series Multiport 10/25/50Gb Ethernet Adapters Model(s) QL41162 (10GbE); QL41262 (10/25GbE) (FCoE) Note: Marvell EOL, no support in OL9 and later. No support for HPE Synergy.	5.15.0-0
Marvell	Marvell® FastLinQ 45000 Series 10/25/40/50/100GbE Ethernet Adapters Model(s) QL45462 (10/40Gb) (FCoE) Note: No support for HPE Synergy devices. Contact HPE. Marvell EOL, no support in OL9 and later.	5.15.0-0
Marvell	Marvell® FastLinQ 45000 Series 10/25/40/50/100GbE Ethernet Adapters Model(s) QL45462 (10/40GbE) (iSCSI) Note: No support for HPE Synergy devices. Contact HPE. Marvell EOL, no support in OL9 and later.	5.15.0-0
Marvell	QLogic® 2500 Series 8G Fibre Channel Adapter Model(s) QLE2560, QLE2562, QLE2564 Note: Deprecated, not supported in OL9. Recommend 5.15.0-100 or later with OL8.	5.15.0-0
Marvell	QLogic® 2600 Series 16G Fibre Channel Adapter Model(s) QLE2670, QLE2672 Note: Deprecated, not supported in OL9. Recommend 5.15.0-100 or later with OL8.	5.15.0-0
Marvell	QLogic® 2600 Series 16G Fibre Channel Adapter Model(s) QLE2690, QLE2692 Note: Recommend 5.15.0-100 or later. Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.15.0-0
Marvell	QLogic® 2600 Series 16G Fibre Channel Adapter Model(s) QLE2694, QLE2694L Note: Recommend 5.15.0-100 or later. Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.15.0-0
Marvell	QLogic® 2740/2760 Series 16/32G Fibre Channel Adapter Model(s) QLE2740, QLE2742 Note: Recommend 5.15.0-100 or later. Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.15.0-0
Marvell	QLogic® 2740/2760 Series 16/32G Fibre Channel Adapter Model(s) QLE2764 Note: Recommend 5.15.0-100 or later. Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.15.0-0
Marvell	QLogic® 2770 Series 32G Gen4 Fibre Channel Adapter Model(s) QLE2770, QLE2772, QLE2774 Note: Recommend 5.15.0-100 or later. Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.15.0-0
Marvell	QLogic® 2800 Series 32/64G Gen4 Fibre Channel Adapter Model(s) QLE2870, QLE2872, QLE2874 Note: Recommend 5.15.0-100 or later. Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.15.0-0

Section 2: Ethernet Networking

Vendor	Adapter	Minimum UEK Version
Broadcom Limited	Emulex® OneConnect OCe14000 10/40GbE Ethernet Network Adapters Model(s) OCe14101-NX, OCe14101-NM, OCe14102-NX, OCe14102-NM, OCe14104-NX, OCe14104-NM, OCe14401-NX Note: No RDMA support.	5.15.0-0
Broadcom Limited	NetXtreme® E-Series 10/25/50/100/200Gb Ethernet Model(s) N1100G, P2100G, N2200G, P2200G	5.15.0-0
Broadcom Limited	NetXtreme® E-Series 10/25/50/100/200Gb Ethernet Model(s) P1100p, P425G	5.15.0-0
Broadcom Limited	NetXtreme® E-Series Dual-Port 10/25GbE PCIe Adapter Model(s) P225p, M225p, M150P Note: No support for RDMA.	5.15.0-0
Broadcom Limited	NetXtreme® E-Series Dual-Port 10GbE PCIe Adapter Model(s) P210p, M210p, N210p Note: No support for RDMA functions.	5.15.0-0
Broadcom Limited	NetXtreme® E-Series Dual-Port 10GbE PCIe Adapter Model(s) P210tep, P210tp, M210tp Note: No support for RDMA functions.	5.15.0-0
Intel	Intel® Ethernet Server Adapter E800 Family Model(s) E810-2CQDA2 (2x100G PCIe 4.0 x16) Note: RoCE is not supported with Oracle Database. No support iWARP, no support for SyncE.	5.15.0-200
Intel	Intel® Ethernet Server Adapter E800 Family Model(s) E810-CQDA1, E810-CQDA2 (100GbE) Note: Support for RoCE in Oracle Linux 9. RoCE is not supported with Oracle Database. No support iWARP.	5.15.0-100
Intel	Intel® Ethernet Server Adapter E800 Family Model(s) E810-XXVDA2, E810-XXVDA4 (25GbE) Note: Support for RoCE in Oracle Linux 9. RoCE is not supported with Oracle Database. No support for iWARP.	5.15.0-100
Intel	Intel® Ethernet Server Adapter E800 Family Model(s) E810-XXVDA4T (25GbE), E810-CQDA2T (100GbE) Note: Support for RoCE in Oracle Linux 9. RoCE is not supported with Oracle Database. No support for iWARP.	5.15.0-100
Intel	Intel® Ethernet Server Adapter I350 Family Model(s) I350-F2, I350-F4, I350-T2V2, I350-T4V2	5.15.0-0
Intel	Intel® Network Adapter 500 Series Model(s) X520-DA2, X520-SR2, X520-SR1, X540-T1, X540-T2, X540-AT2, X550-T2, X550-T1	5.15.0-0
Intel	Intel® Network Adapter 700 Series Model(s) X710-DA2, X710-DA4	5.15.0-0
Intel	Intel® Network Adapter 700 Series Model(s) X710-T4, X710-T2L, X710-T4L, X710-TM4	5.15.0-0
Intel	Intel® Network Adapter 700 Series Model(s) X722-DA4, X722-DA2 (discontinued models) Note: No support for Oracle Linux 9.	5.15.0-0

Intel	Intel® Network Adapter 700 Series Model(s) XL710-QDA2	5.15.0-0
Intel	Intel® Network Adapter 700 Series Model(s) XXV710-DA2	5.15.0-0
Marvell	Marvell® FastLinQ 3400 Series 10GbE Ethernet Adapters Model(s) QLE3442, QLE3440 Note: Ethernet only with HPE Synergy devices (no FCoE or iSCSI support). Contact HPE. This device is deprecated and not supported in OL9 and later.	5.15.0-0
Marvell	Marvell® FastLinQ 41000 Series Multiport 10/25/50Gb Ethernet Adapters Model(s) QL41112, QL41132, QL41134, QL41162 (10GbE PCIe and OCP 3.0) Note: Ethernet support only (no RDMA). No support for HPE Synergy. Marvell EOL, no support in OL9 and later.	5.15.0-0
Marvell	Marvell® FastLinQ 41000 Series Multiport 10/25/50Gb Ethernet Adapters Model(s) QL41212, QL41231, QL41232, QL41234, QL41254, QL41262 (10/25GbE PCIe) Note: No RDMA support. HPE Synergy supports Ethernet in this environment, no FCoE or iSCSI. Marvell EOL, no support in OL9 and later.	5.15.0-0
Marvell	Marvell® FastLinQ 45000 Series 10/25/40/50/100GbE Ethernet Adapters Model(s) QL45211, QL45212 (1/10/25GbE) Note: No RDMA support. HPE Synergy supports Ethernet in this environment, no FCoE or iSCSI. Marvell EOL, no support in OL9 and later.	5.15.0-0
Marvell	Marvell® FastLinQ 45000 Series 10/25/40/50/100GbE Ethernet Adapters Model(s) QL45411, QL45412, QL45462 (10/40GbE) Note: No RDMA support. HPE Synergy supports Ethernet in this environment, no FCoE or iSCSI. Marvell EOL, no support in OL9 and later.	5.15.0-0
Marvell	Marvell® FastLinQ 45000 Series 10/25/40/50/100GbE Ethernet Adapters Model(s) QL45611, QL45631 (10/25/100GbE) Note: No RDMA support. HPE Synergy supports Ethernet in this environment, no FCoE or iSCSI. Marvell EOL, no support in OL9 and later.	5.15.0-0
Mellanox	ConnectX®-4 Lx EN Model(s) MCX4111A, MCX4121A, MCX4131A	5.15.0-0
Mellanox	ConnectX®-5 Ex EN Model(s) MCX516A-CDAT, MCX512A-ADAT, MCX546A, MCX565M, MCX566A	5.15.0-0
Mellanox	ConnectX®-5 VPI FDR/EDR Model(s) MCX555A-ECAT, MCX556A-EC Note: No support for InfiniBand. Support for RoCEv2 is present, but not supported by Oracle Database.	5.15.0-0
Mellanox	ConnectX®-5 Model(s) MCX511F, MCX512A, MCX512F, MCX515A, MCX516A, MCX542A, MCX542B, MCX545A, MCX562A, MCX566A-CCAI Note: No RDMA support.	5.15.0-0
Mellanox	ConnectX®-6 LX Model(s) MCX623106A*-CD* Note: No RDMA support.	5.15.0-0
Mellanox	ConnectX®-6 LX Model(s) MCX631102A*-AD*, CX631105A*-GD*, MCX631432A*-AD*, MCX631435A*-GD* Note: No RDMA support.	5.15.0-0

Section 3: SAS/RAID

Vendor	Adapter	Minimum UEK Version
Broadcom Limited	MegaRAID® 9300 Series RAID Adapters [EOL] Model(s) 9341-16i, 9341-24i Note: Supported for Oracle Linux 8. Support not planned for Oracle Linux 9.	5.15.0-0
Broadcom Limited	MegaRAID® 9300 Series RAID Adapters [EOL] Model(s) 9341-4i, 9361-8i, 9361-16i, 9364-8i, 9361-24i, 9380-4i4e, 9380-8e, 9380-8i8e Note: Supported for Oracle Linux 8. Support not planned for Oracle Linux 9.	5.15.0-0
Broadcom Limited	MegaRAID® 9300 Series RAID Adapters [EOL] Model(s) 9361-8i8e, 9361-16i Note: Supported for Oracle Linux 8. Support not planned for Oracle Linux 9.	5.15.0-0
Broadcom Limited	MegaRAID® 9400 Series RAID Adapters Model(s) 9440-8i, 9460-8i, 9480-8i8e, 9460-16i	5.15.0-0
Broadcom Limited	MegaRAID® 9500 Series Tri-Mode RAID Adapters Model(s) 9560-16i, 9560-8i, 9580-8i8e	5.15.0-0
Broadcom Limited	MegaRAID® 9600 Series RAID Adapters Model(s) 9620-16i, 9660-16i, 9670-24i, 9670-16i Note: Requires 5.15.0-100.x or later.	5.15.0-100
Broadcom Limited	SAS 9300 Series Host Bust Adapter (HBA) Family Model(s) 9300-4i, 9300-4i4e, 9300-8e, 9300-8i, 9305-16, 9305-16i, 9305-24i	5.15.0-0
Broadcom Limited	SAS 9400 Series Host Bust Adapter (HBA) Family Model(s) 9400-16e, 9400-16i, 9400-8e, 9400-8i, 9400-8i8e, 9405W-16e, 9405W-16i	5.15.0-0
Broadcom Limited	SAS 9500 Series Tri-Mode Storage Adapter (HBA) Family Model(s) 9500-16e, 9500-16i, 9500-8e, 9500-8i	5.15.0-0
Broadcom Limited	SAS 9600 Series Host Bus Adapters Model(s) 9600-24i, 9600-16i, 9600-16e, 9600W-16e Note: Requires 5.15.0-100.x or later.	5.15.0-0
Microchip	Adaptec® HBA 1100 12Gbps Host Bus Adapters Model(s) HBA 1100-16e, 1100-16i, 1100-24i, 1100-4i, 1100-8e, 1100-8i, 1100-8i8e	5.15.0-0
Microchip	Adaptec® HBA 1200 24Gbps Host Bus Adapters Model(s) 1200-32i, 1200-16i, 1200-16e, 1200-16i, 1200-16e, 1200-8i, 1200-8e	5.15.0-0
Microchip	Adaptec® SmartHBA 2100 12Gbps Host Bus Adapters Model(s) 2100-4i4e, 2100-24i, 2100-8i, 2100-8i8e, 2100-8e, 2100-4i	5.15.0-0
Microchip	Adaptec® SmartHBA 2200 24Gbps Host Bus Adapters Model(s) 2200-16	5.15.0-0
Microchip	Adaptec® SmartRAID 3100 12Gbps RAID Adapters Model(s) SmartRAID 3101-4i, 3102-8i, 3151-4i, 3152-8i, 3154-8e, 3154-8i	5.15.0-0
Microchip	Adaptec® SmartRAID 3100 12Gbps RAID Adapters Model(s) SmartRAID 3154-8i16e, 3154-16i, 3154-8i8e, 3154-24i	5.15.0-0

Microchip	Adaptec® SmartRAID 3100 12Gbps RAID Adapters Model(s) SmartRAID 3162-8i, 3162-8e	5.15.0-0
Microchip	Adaptec® SmartRAID 3200 24Gbps RAID Adapters Model(s) 3258p-32i /e, 3258Up-16i /e, 3254U-16e /e, 3258-16i /e, 3254-16i /e, 3254-16e /e, 3254-8i, 3204-8i, 3252-8i	5.15.0-0

UEK Release 6

Section 1: Storage

Vendor	Adapter	Minimum UEK Version
Broadcom Limited	Emulex® LightPulse® LPe12000 8Gb Fibre Channel Adapter Model(s) LPe12000, LPe12002, LPe12004, LPe1250	5.4.17-2011
Broadcom Limited	Emulex® LightPulse® LPe16000 Fibre Channel Adapter (Gen5) Model(s) LPe16002, LPe16000B, LPe16002B, LPe16004	5.4.17-2011
Broadcom Limited	Emulex® LightPulse® LPe31000/32000 Fibre Channel Adapter (Gen6) Model(s) LPe31000-M6, LPe31002-M6, LPe31004-M6 Note: Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.4.17-2011
Broadcom Limited	Emulex® LightPulse® LPe31000/32000 Fibre Channel Adapter (Gen6) Model(s) LPe32000-M2, LPe32002-M2, LPe32004-M2 Note: Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.4.17-2011
Broadcom Limited	Emulex® LightPulse® LPe35000/36000 Fibre Channel Adapter (Gen7) Model(s) LPe35000-M2, LPe35002-M2 Note: Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.4.17-2011
Broadcom Limited	Emulex® LightPulse® LPe35000/36000 Fibre Channel Adapter (Gen7) Model(s) LPe35004-M2 Note: Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.4.17-2011
Broadcom Limited	Emulex® LightPulse® LPe35000/36000 Fibre Channel Adapter (Gen7) Model(s) LPe36000-M64, LPe36002-M64 Note: Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.4.17-2011
Broadcom Limited	Emulex® OneConnect OCe10000 10GbE Network Adapters Model(s) OCe10102-IX, OCe10102-IM (iSCSI) Note: End of life, not supported in Oracle Linux 8.	5.4.17-2011
Broadcom Limited	Emulex® OneConnect OCe11000 10GbE Network Adapters Model(s) OCe11102-IT, OCe11102-IX, OCe11102-IM (iSCSI) Note: End of life, not supported in Oracle Linux 8.	5.4.17-2011
Intel	Intel® Ethernet Server Adapter I350 Family Model(s) I350-F2, I350-F4, I350-T2V2, I350-T4V2 (iSCSI)	5.4.17-2011

Intel	Intel® Network Adapter 500 Series Model(s) X520-DA2, X520-SR2, X520-SR1, X540-T1, X540-T2, X550-T2, X550-T1 (FCoE)	5.4.17-2011
Intel	Intel® Network Adapter 500 Series Model(s) X520-DA2, X520-SR2, X520-SR1, X540-T1, X540-T2, X550-T2, X550-T1 (iSCSI)	5.4.17-2011
Intel	Intel® Network Adapter 700 Series Model(s) X722-DA4, X722-DA2 (discontinued models) (iSCSI)	5.4.17-2011
Intel	Intel® Network Adapter 700 Series Model(s) XXV710-DA1, XXV710-DA2 (iSCSI)	5.4.17-2036
Marvell	Marvell® FastLinQ 41000 Series Multiport 10/25/50Gb Ethernet Adapters Model(s) QL41162 (10GbE); QL41254, QL41262 (10/25GbE) (iSCSI) Note: No support for HPE Synergy.	5.4.17-2011
Marvell	Marvell® FastLinQ 41000 Series Multiport 10/25/50Gb Ethernet Adapters Model(s) QL41162 (10GbE); QL41262 (10/25GbE) (FCoE) Note: No support for HPE Synergy.	5.4.17-2011
Marvell	Marvell® FastLinQ 45000 Series 10/25/40/50/100GbE Ethernet Adapters Model(s) QL45462 (10/40Gb) (FCoE) Note: No support for HPE Synergy devices. Contact HPE.	5.4.17-2011
Marvell	Marvell® FastLinQ 45000 Series 10/25/40/50/100GbE Ethernet Adapters Model(s) QL45462 (10/40GbE) (iSCSI) Note: No support for HPE Synergy devices. Contact HPE.	5.4.17-2011
Marvell	QLogic® 2500 Series 8G Fibre Channel Adapter Model(s) QLE2560, QLE2562, QLE2564 Note: Recommend 5.4.17-2136 or later.	5.4.17-2036
Marvell	QLogic® 2600 Series 16G Fibre Channel Adapter Model(s) QLE2670, QLE2672 Note: Recommend 5.4.17-2136 or later.	5.4.17-2036
Marvell	QLogic® 2600 Series 16G Fibre Channel Adapter Model(s) QLE2690, QLE2692 Note: Recommend 5.4.17-2136 or later. Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.4.17-2036
Marvell	QLogic® 2600 Series 16G Fibre Channel Adapter Model(s) QLE2694, QLE2694L Note: Recommend 5.4.17-2136 or later. Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.4.17-2036
Marvell	QLogic® 2740/2760 Series 16/32G Fibre Channel Adapter Model(s) QLE2740, QLE2742 Note: Recommend 5.4.17-2136 or later. Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.4.17-2036
Marvell	QLogic® 2740/2760 Series 16/32G Fibre Channel Adapter Model(s) QLE2764 Note: Recommend 5.4.17-2136 or later. Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.4.17-2036
Marvell	QLogic® 2770 Series 32G Gen4 Fibre Channel Adapter Model(s) QLE2770, QLE2772, QLE2774 Note: Recommend 5.4.17-2136 or later. Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.4.17-2036

Marvell	QLogic® 2800 Series 32/64G Gen4 Fibre Channel Adapter Model(s) QLE2870, QLE2872, QLE2874 Note: Recommend 5.4.17-2136 or later. Supports NVMe-FC beginning in OL8 with UEK6 (min), with support for Install/Boot from SAN beginning in OL9 with UEK7 (min).	5.4.17-2036
Marvell	QLogic® FastLinQ 8200 Series 10GbE Adapters [EOL] Model(s) QLE8240/8242 (FCoE) Note: End of life. No support with Oracle Linux 8.	5.4.17-2011
Marvell	QLogic® FastLinQ 8200 Series 10GbE Adapters [EOL] Model(s) QLE8240/8242 (iSCSI) Note: End of life. No support with Oracle Linux 8.	5.4.17-2011
Marvell	QLogic® FastLinQ 8300 Series 10GbE Adapters [EOL] Model(s) QLE8360/8362 (FCoE) Note: End of life. No support with Oracle Linux 8.	5.4.17-2011
Marvell	QLogic® FastLinQ 8300 Series 10GbE Adapters [EOL] Model(s) QLE8360/8362 (iSCSI) Note: End of life. No support with Oracle Linux 8.	5.4.17-2011
Marvell	QLogic® FastLinQ 8400 Series 10GbE CNA [EOL] Model(s) QLE8440, QLE8442 (FCoE) Note: End of life. No support with Oracle Linux 8.	5.4.17-2011
Marvell	QLogic® FastLinQ 8400 Series 10GbE CNA [EOL] Model(s) QLE8440, QLE8442 (iSCSI) Note: End of life. No support with Oracle Linux 8.	5.4.17-2011

Section 2: Ethernet Networking

Vendor	Adapter	Minimum UEK Version
Broadcom Limited	Emulex® OneConnect OCe10000 10GbE Network Adapters Model(s) OCe10102-NX, OCe10102-NM Note: RDMA not supported. End of life, not supported in Oracle Linux 8.	5.4.17-2011
Broadcom Limited	Emulex® OneConnect OCe11000 10GbE Network Adapters Model(s) OCe11102-NM, OCe11102-NX, OCe11102-NT, OCe11101-NM, OCe11101-NX Note: RDMA not supported. End of life, no support in Oracle Linux 8.	5.4.17-2011
Broadcom Limited	Emulex® OneConnect OCe14000 10/40GbE Ethernet Network Adapters Model(s) OCe14101-NX, OCe14101-NM, OCe14102-NX, OCe14102-NM, OCe14104-NX, OCe14104-NM, OCe14401-NX Note: No RDMA support.	5.4.17-2011
Broadcom Limited	NetXtreme® E-Series 10/25/50/100/200Gb Ethernet Model(s) N1100G, P2100G, N2200G, P2200G Note: RDMA not supported at this time.	5.4.17-2011
Broadcom Limited	NetXtreme® E-Series 10/25/50/100/200Gb Ethernet Model(s) P1100p, P425G Note: RDMA not supported at this time.	5.4.17-2011
Broadcom Limited	NetXtreme® E-Series Dual-Port 10/25GbE PCIe Adapter Model(s) P225p, M225p, M150P Note: No support for RDMA.	5.4.17-2011

Broadcom Limited	NetXtreme® E-Series Dual-Port 10GbE PCIe Adapter Model(s) P210p, M210p, N210p Note: No support for RDMA functions.	5.4.17-2011
Broadcom Limited	NetXtreme® E-Series Dual-Port 10GbE PCIe Adapter Model(s) P210tep, P210tp, M210tp Note: No support for RDMA functions.	5.4.17-2011
Intel	Intel® Ethernet Server Adapter E800 Family Model(s) E810-CQDA1, E810-CQDA2 (100GbE) Note: No support for RoCE, iWARP, NVMe/fabrics, or ADQ. Advise 5.4.17-2136.313.x or later for FW update support.	5.4.17-2136
Intel	Intel® Ethernet Server Adapter E800 Family Model(s) E810-XXVDA2, E810-XXVDA4 (25GbE) Note: No support for RoCE, iWARP, NVMe/fabrics, or ADQ. Advise 5.4.17-2136.313.x or later for FW update support.	5.4.17-2136
Intel	Intel® Ethernet Server Adapter I350 Family Model(s) I350-F2, I350-F4, I350-T2V2, I350-T4V2	5.4.17-2011
Intel	Intel® Network Adapter 500 Series Model(s) X520-DA2, X520-SR2, X520-SR1, X540-T1, X540-T2, X540-AT2, X550-T2, X550-T1	5.4.17-2011
Intel	Intel® Network Adapter 700 Series Model(s) X710-DA2, X710-DA4	5.4.17-2036
Intel	Intel® Network Adapter 700 Series Model(s) X710-T4, X710-T2L, X710-T4L, X710-TM4	5.4.17-2036
Intel	Intel® Network Adapter 700 Series Model(s) X722-DA4, X722-DA2 (discontinued models)	5.4.17-2011
Intel	Intel® Network Adapter 700 Series Model(s) XL710-QDA2	5.4.17-2036
Intel	Intel® Network Adapter 700 Series Model(s) XXV710-DA2	5.4.17-2036
Marvell	Marvell® FastLinQ 3400 Series 10GbE Ethernet Adapters Model(s) QLE3442, QLE3440 Note: Ethernet only with HPE Synergy devices (no FCoE or iSCSI support). Contact HPE.	5.4.17-2011
Marvell	Marvell® FastLinQ 41000 Series Multiport 10/25/50Gb Ethernet Adapters Model(s) QL41112, QL41132, QL41134, QL41162 (10GbE PCIe and OCP 3.0) Note: No RDMA support. No support for HPE Synergy.	5.4.17-2011
Marvell	Marvell® FastLinQ 41000 Series Multiport 10/25/50Gb Ethernet Adapters Model(s) QL41212, QL41231, QL41232, QL41234, QL41254, QL41262 (10/25GbE PCIe) Note: No RDMA support. HPE Synergy supports Ethernet in this environment, no FCoE or iSCSI.	5.4.17-2011
Marvell	Marvell® FastLinQ 45000 Series 10/25/40/50/100GbE Ethernet Adapters Model(s) QL45211, QL45212 (1/10/25GbE) Note: No RDMA support. HPE Synergy supports Ethernet in this environment, no FCoE or iSCSI.	5.4.17-2011
Marvell	Marvell® FastLinQ 45000 Series 10/25/40/50/100GbE Ethernet Adapters Model(s) QL45411, QL45412, QL45462 (10/40GbE) Note: No RDMA support. HPE Synergy supports Ethernet in this environment, no FCoE or iSCSI.	5.4.17-2011
Marvell	Marvell® FastLinQ 45000 Series 10/25/40/50/100GbE Ethernet Adapters Model(s) QL45611, QL45631 (10/25/100GbE) Note: No RDMA support. HPE Synergy supports Ethernet in this environment, no FCoE or iSCSI.	5.4.17-2011

Marvell	QLogic® FastLinQ 8200 Series 10GbE Adapters [EOL] Model(s) QLE8240/8242 Note: End of life. No support with Oracle Linux 8.	5.4.17-2011
Marvell	QLogic® FastLinQ 8300 Series 10GbE Adapters [EOL] Model(s) QLE8360/8362 Note: End of life. No support with Oracle Linux 8.	5.4.17-2011
Marvell	QLogic® FastLinQ 8400 Series 10GbE CNA [EOL] Model(s) QLE8440, QLE8442 Note: End of life. No support with Oracle Linux 8.	5.4.17-2011
Mellanox	ConnectX®-3 EN Adapter [EOL] Model(s) MCX311A-XCAT, MCX312A-XCBT, MCX313A-BCBT, MCX314A-BCBT Note: No RDMA support.	5.4.17-2011
Mellanox	ConnectX®-3 Pro EN Adapter [EOL] Model(s) MCX311A-XCCT, MCX312B-XCCT, MCX312C-XCCT, MCX313A-BCCT, MCX314A-BCCT Note: No RDMA support.	5.4.17-2011
Mellanox	ConnectX®-3 Pro VPI Adapter [EOL] Model(s) MCX353A-FCCT, MCX354A-FCCT Note: Ethernet mode only, and no RDMA support.	5.4.17-2011
Mellanox	ConnectX®-3 VPI Adapter [EOL] Model(s) MCX353A-QCBT, MCX354A-QCBT, MCX353A-FCBT, MCX354A-FCBT Note: Ethernet only, with no RDMA support.	5.4.17-2011
Mellanox	ConnectX®-4 EN Model(s) MCX415A, MCX416A, MCX413A, MCX414A Note: No RDMA support.	5.4.17-2011
Mellanox	ConnectX®-4 Lx EN Model(s) MCX4111A, MCX4121A, MCX4131A Note: No RDMA support.	5.4.17-2011
Mellanox	ConnectX®-5 Ex EN Model(s) MCX516A-CDAT, MCX512A-ADAT, MCX546A, MCX565M, MCX566A Note: No RDMA support.	5.4.17-2011
Mellanox	ConnectX®-5 VPI FDR/EDR Model(s) MCX555A-ECAT, MCX556A-EC Note: No support for InfiniBand. Support for RoCEv2 is present, but not supported by Oracle Database.	5.4.17-2011
Mellanox	ConnectX®-5 Model(s) MCX511F, MCX512A, MCX512F, MCX515A, MCX516A, MCX542A, MCX542B, MCX545A, MCX562A, MCX566A-CCAI Note: No RDMA support.	5.4.17-2011
Mellanox	ConnectX®-6 LX Model(s) MCX631102A*-AD*, CX631105A*-GD*, MCX631432A*-AD*, MCX631435A*-GD* Note: No RDMA support.	5.4.17-2011

Section 3: SAS/RAID

Vendor	Adapter	Minimum UEK Version
Broadcom Limited	MegaRAID® 9300 Series RAID Adapters [EOL] Model(s) 9341-16i, 9341-24i	5.4.17-2011

Broadcom Limited	MegaRAID® 9300 Series RAID Adapters [EOL] Model(s) 9341-4i, 9361-8i, 9361-16i, 9364-8i, 9361-24i, 9380-4i4e, 9380-8e, 9380-8i8e	5.4.17-2011
Broadcom Limited	MegaRAID® 9300 Series RAID Adapters [EOL] Model(s) 9361-8i8e, 9361-16i	5.4.17-2011
Broadcom Limited	MegaRAID® 9400 Series RAID Adapters Model(s) 9440-8i, 9460-8i, 9480-8i8e, 9460-16i	5.4.17-2011
Broadcom Limited	MegaRAID® 9500 Series Tri-Mode RAID Adapters Model(s) 9560-16i, 9560-8i, 9580-8i8e	5.4.17-2011
Broadcom Limited	MegaRAID® 9600 Series RAID Adapters Model(s) 9620-16i, 9660-16i, 9670-24i, 9670-16i Note: Requires 5.4.17-2136.318.x or later.	5.4.17-2136
Broadcom Limited	SAS 9200 Series Host Bust Adapter (HBA) Family Model(s) 9201-16e, 9201-16i, 9206-16e, 9207-4i4e, 9207-8e, 9207-8i, 9208-8i, 9217-4i4e, 9217-8i Note: Product is end of life by manufacturer.	5.4.17-2011
Broadcom Limited	SAS 9300 Series Host Bust Adapter (HBA) Family Model(s) 9300-4i, 9300-4i4e, 9300-8e, 9300-8i, 9305-16, 9305-16i, 9305-24i	5.4.17-2011
Broadcom Limited	SAS 9400 Series Host Bust Adapter (HBA) Family Model(s) 9400-16e, 9400-16i, 9400-8e, 9400-8i, 9400-8i8e, 9405W-16e, 9405W-16i	5.4.17-2011
Broadcom Limited	SAS 9500 Series Tri-Mode Storage Adapter (HBA) Family Model(s) 9500-16e, 9500-16i, 9500-8e, 9500-8i	5.4.17-2011
Broadcom Limited	SAS 9600 Series Host Bus Adapters Model(s) 9600-24i, 9600-16i, 9600-16e, 9600W-16e Note: Requires 5.4.17-2136.318.x or later.	5.4.17-2136
Microchip	Adaptec® HBA 1000 12Gbps Host Bus Adapter Model(s) HBA 1000-8i, 1000-8e, 1000-8i8e, 1000-16e, 1000-16i Note: End of life, no support with Oracle Linux 8.	5.4.17-2011
Microchip	Adaptec® HBA 1100 12Gbps Host Bus Adapters Model(s) HBA 1100-16e, 1100-16i, 1100-24i, 1100-4i, 1100-8e, 1100-8i, 1100-8i8e	5.4.17-2136
Microchip	Adaptec® HBA 1200 24Gbps Host Bus Adapters Model(s) 1200-32i, 1200-16i, 1200-16e, 1200-16i, 1200-16e, 1200-8i, 1200-8e	5.4.17-2136
Microchip	Adaptec® SmartHBA 2100 12Gpbs Host Bus Adapters Model(s) 2100-4i4e, 2100-24i, 2100-8i, 2100-8i8e, 2100-8e, 2100-4i	5.4.17-2136
Microchip	Adaptec® SmartHBA 2200 24Gbps Host Bus Adapters Model(s) 2200-16	5.4.17-2136
Microchip	Adaptec® SmartRAID 3100 12Gbps RAID Adapters Model(s) SmartRAID 3101-4i, 3102-8i, 3151-4i, 3152-8i, 3154-8e, 3154-8i	5.4.17-2136
Microchip	Adaptec® SmartRAID 3100 12Gbps RAID Adapters Model(s) SmartRAID 3154-8i16e, 3154-16i, 3154-8i8e, 3154-24i	5.4.17-2136
Microchip	Adaptec® SmartRAID 3100 12Gbps RAID Adapters Model(s) SmartRAID 3162-8i, 3162-8e	5.4.17-2011

Microchip	Adaptec® SmartRAID 3200 24Gbps RAID Adapters Model(s) 3258p-32i /e, 3258Up-16i /e, 3254U-16e /e, 3258-16i /e, 3254-16i /e, 3254-16e /e, 3254-8i, 3204-8i, 3252-8i	5.4.17-2136
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UEK Release 5

Section 1: Storage

Vendor	Adapter	Minimum UEK Version
Broadcom Limited	Emulex® LightPulse® LPe12000 8Gb Fibre Channel Adapter Model(s) LPe12000, LPe12002, LPe12004, LPe1250	4.14.35-1818
Broadcom Limited	Emulex® LightPulse® LPe16000 Fibre Channel Adapter (Gen5) Model(s) LPe16002, LPe16000B, LPe16002B, LPe16004	4.14.35-1818
Broadcom Limited	Emulex® LightPulse® LPe31000/32000 Fibre Channel Adapter (Gen6) Model(s) LPe31000-M6, LPe31002-M6, LPe31004-M6 Note: No NVMe-FC support prior to OL8 with UEK R6.	4.14.35-1902.300
Broadcom Limited	Emulex® LightPulse® LPe31000/32000 Fibre Channel Adapter (Gen6) Model(s) LPe32000-M2, LPe32002-M2, LPe32004-M2 Note: No NVMe-FC support prior to OL8 with UEK R6.	4.14.35-1902.300
Broadcom Limited	Emulex® LightPulse® LPe35000/36000 Fibre Channel Adapter (Gen7) Model(s) LPe35000-M2, LPe35002-M2 Note: No NVMe-FC support prior to OL8 with UEK R6.	4.14.35-1902
Broadcom Limited	Emulex® LightPulse® LPe35000/36000 Fibre Channel Adapter (Gen7) Model(s) LPe35004-M2 Note: No NVMe-FC support prior to OL8 with UEK R6.	4.14.35-1902
Broadcom Limited	Emulex® LightPulse® LPe35000/36000 Fibre Channel Adapter (Gen7) Model(s) LPe36000-M64, LPe36002-M64 Note: No NVMe-FC support prior to OL8 with UEK R6.	4.14.35-1902
Broadcom Limited	Emulex® OneConnect OCe10000 10GbE Network Adapters Model(s) OCe10102-IX, OCe10102-IM (iSCSI)	4.14.35-1818
Broadcom Limited	Emulex® OneConnect OCe11000 10GbE Network Adapters Model(s) OCe11102-IT, OCe11102-IX, OCe11102-IM (iSCSI)	4.14.35-1818
Intel	Intel® Network Adapter 500 Series Model(s) X520-DA2, X520-SR2, X520-SR1, X540-T1, X540-T2, X550-T2, X550-T1 (FCoE)	4.14.35-1818
Intel	Intel® Network Adapter 500 Series Model(s) X520-DA2, X520-SR2, X520-SR1, X540-T1, X540-T2, X550-T2, X550-T1 (iSCSI)	4.14.35-1818
Intel	Intel® Network Adapter 700 Series Model(s) X722-DA4, X722-DA2 (discontinued models) (iSCSI)	4.14.35-1818
Intel	Intel® Network Adapter 700 Series Model(s) XXV710-DA1, XXV710-DA2 (iSCSI)	4.14.35-2025

Marvell	Marvell® FastLinQ 41000 Series Multiport 10/25/50Gb Ethernet Adapters Model(s) QL41162 (10GbE); QL41254, QL41262 (10/25GbE) (iSCSI) Note: No support for HPE Synergy.	4.14.35-1902
Marvell	Marvell® FastLinQ 41000 Series Multiport 10/25/50Gb Ethernet Adapters Model(s) QL41162 (10GbE); QL41262 (10/25GbE) (FCoE) Note: No support for HPE Synergy.	4.14.35-1902
Marvell	Marvell® FastLinQ 45000 Series 10/25/40/50/100GbE Ethernet Adapters Model(s) QL45462 (10/40Gb) (FCoE) Note: No support for HPE Synergy devices. Contact HPE.	4.14.35-1902.300
Marvell	Marvell® FastLinQ 45000 Series 10/25/40/50/100GbE Ethernet Adapters Model(s) QL45462 (10/40GbE) (iSCSI) Note: No support for HPE Synergy devices. Contact HPE.	4.14.35-1902.300
Marvell	QLogic® 2500 Series 8G Fibre Channel Adapter Model(s) QLE2560, QLE2562, QLE2564	4.14.35-2025
Marvell	QLogic® 2600 Series 16G Fibre Channel Adapter Model(s) QLE2670, QLE2672	4.14.35-2025
Marvell	QLogic® 2600 Series 16G Fibre Channel Adapter Model(s) QLE2690, QLE2692 Note: No NVMe-FC support prior to OL8 with UEK R6.	4.14.35-2025
Marvell	QLogic® 2600 Series 16G Fibre Channel Adapter Model(s) QLE2694, QLE2694L Note: No NVMe support prior to OL8 with UEK R6.	4.14.35-2025
Marvell	QLogic® 2740/2760 Series 16/32G Fibre Channel Adapter Model(s) QLE2740, QLE2742 Note: No NVMe-FC support prior to OL8 with UEK R6.	4.14.35-2047
Marvell	QLogic® 2740/2760 Series 16/32G Fibre Channel Adapter Model(s) QLE2764 Note: No NVMe-FC support prior to OL8 with UEK R6.	4.14.35-2047
Marvell	QLogic® 2770 Series 32G Gen4 Fibre Channel Adapter Model(s) QLE2770, QLE2772, QLE2774 Note: No NVMe-FC support prior to OL8 with UEK R6.	4.14.35-2025
Marvell	QLogic® 2800 Series 32/64G Gen4 Fibre Channel Adapter Model(s) QLE2870, QLE2872, QLE2874 Note: No NVMe-FC support prior to OL8 with UEK R6.	4.14.35-2025
Marvell	QLogic® FastLinQ 8200 Series 10GbE Adapters [EOL] Model(s) QLE8240/8242 (FCoE) Note: End of life.	4.14.35-1818
Marvell	QLogic® FastLinQ 8200 Series 10GbE Adapters [EOL] Model(s) QLE8240/8242 (iSCSI) Note: End of life. No support with Oracle Linux 8.	4.14.35-1818
Marvell	QLogic® FastLinQ 8300 Series 10GbE Adapters [EOL] Model(s) QLE8360/8362 (FCoE) Note: End of life.	4.14.35-1818
Marvell	QLogic® FastLinQ 8300 Series 10GbE Adapters [EOL] Model(s) QLE8360/8362 (iSCSI) Note: End of life.	4.14.35-1818

Marvell	QLogic® FastLinQ 8400 Series 10GbE CNA [EOL] Model(s) QLE8440, QLE8442 (FCoE) Note: End of life.	4.14.35-1818
Marvell	QLogic® FastLinQ 8400 Series 10GbE CNA [EOL] Model(s) QLE8440, QLE8442 (iSCSI) Note: End of life. No support with Oracle Linux 8.	4.14.35-1818

Section 2: Ethernet Networking

Vendor	Adapter	Minimum UEK Version
Broadcom Limited	Emulex® OneConnect OCe10000 10GbE Network Adapters Model(s) OCe10102-NX, OCe10102-NM Note: RDMA not supported.	4.14.35-1818
Broadcom Limited	Emulex® OneConnect OCe11000 10GbE Network Adapters Model(s) OCe11102-NM, OCe11102-NX, OCe11102-NT, OCe11101-NM, OCe11101-NX Note: RDMA not supported.	4.14.35-1818
Broadcom Limited	Emulex® OneConnect OCe14000 10/40GbE Ethernet Network Adapters Model(s) OCe14101-NX, OCe14101-NM, OCe14102-NX, OCe14102-NM, OCe14104-NX, OCe14104-NM, OCe14401-NX Note: No RDMA support.	4.14.35-1818
Broadcom Limited	NetXtreme® E-Series 10/25/50/100/200Gb Ethernet Model(s) N1100G, P2100G, N2200G, P2200G Note: Support for speeds up to 100GbE. No support for RDMA functions in UEK R5.	4.14.35-1902.300
Broadcom Limited	NetXtreme® E-Series 10/25/50/100/200Gb Ethernet Model(s) P1100p, P425G Note: Support for speeds up to 100GbE. No support for RDMA functions in UEK R5.	4.14.35-1902.300
Broadcom Limited	NetXtreme® E-Series Dual-Port 10/25GbE PCIe Adapter Model(s) P225p, M225p, M150P Note: No support for RDMA.	4.14.35-1818
Broadcom Limited	NetXtreme® E-Series Dual-Port 10GbE PCIe Adapter Model(s) P210p, M210p, N210p Note: No support for RDMA functions.	4.14.35-1818
Broadcom Limited	NetXtreme® E-Series Dual-Port 10GbE PCIe Adapter Model(s) P210tep, P210tp, M210tp Note: No support for RDMA functions.	4.14.35-1818
Intel	Intel® Network Adapter 500 Series Model(s) X520-DA2, X520-SR2, X520-SR1, X540-T1, X540-T2, X540-AT2, X550-T2, X550-T1	4.14.35-1818
Intel	Intel® Network Adapter 700 Series Model(s) X710-DA2, X710-DA4	4.14.35-2025
Intel	Intel® Network Adapter 700 Series Model(s) X710-T4, X710-T2L, X710-T4L, X710-TM4	4.14.35-2025
Intel	Intel® Network Adapter 700 Series Model(s) X722-DA4, X722-DA2 (discontinued models)	4.14.35-1818

Marvell	Marvell® FastLinQ 3400 Series 10GbE Ethernet Adapters Model(s) QLE3442, QLE3440 Note: Ethernet only with HPE Synergy devices (no FCoE or iSCSI support). Contact HPE.	4.14.35-1818
Marvell	Marvell® FastLinQ 41000 Series Multiport 10/25/50Gb Ethernet Adapters Model(s) QL41112, QL41132, QL41134, QL41162 (10GbE PCIe and OCP 3.0) Note: No RDMA support. No support for HPE Synergy.	4.14.35-1902
Marvell	Marvell® FastLinQ 41000 Series Multiport 10/25/50Gb Ethernet Adapters Model(s) QL41212, QL41231, QL41232, QL41234, QL41254, QL41262 (10/25GbE PCIe) Note: No RDMA support. HPE Synergy supports Ethernet in this environment, no FCoE or iSCSI.	4.14.35-1902
Marvell	Marvell® FastLinQ 45000 Series 10/25/40/50/100GbE Ethernet Adapters Model(s) QL45211, QL45212 (1/10/25GbE) Note: No RDMA support. HPE Synergy supports Ethernet in this environment, no FCoE or iSCSI.	4.14.35-1902.300
Marvell	Marvell® FastLinQ 45000 Series 10/25/40/50/100GbE Ethernet Adapters Model(s) QL45411, QL45412, QL45462 (10/40GbE) Note: No RDMA support. HPE Synergy supports Ethernet in this environment, no FCoE or iSCSI.	4.14.35-1902.300
Marvell	Marvell® FastLinQ 45000 Series 10/25/40/50/100GbE Ethernet Adapters Model(s) QL45611, QL45631 (10/25/100GbE) Note: No RDMA support. HPE Synergy supports Ethernet in this environment, no FCoE or iSCSI.	4.14.35-1902.300
Marvell	QLogic® FastLinQ 8200 Series 10GbE Adapters [EOL] Model(s) QLE8240/8242 Note: End of life. No support with Oracle Linux 8.	4.14.35-1818
Marvell	QLogic® FastLinQ 8300 Series 10GbE Adapters [EOL] Model(s) QLE8360/8362 Note: End of life.	4.14.35-1818
Marvell	QLogic® FastLinQ 8400 Series 10GbE CNA [EOL] Model(s) QLE8440, QLE8442 Note: End of life. No support with Oracle Linux 8.	4.14.35-1818
Mellanox	ConnectX®-3 EN Adapter [EOL] Model(s) MCX311A-XCAT, MCX312A-XCBT, MCX313A-BCBT, MCX314A-BCBT Note: No RDMA support.	4.14.35-1818
Mellanox	ConnectX®-3 Pro EN Adapter [EOL] Model(s) MCX311A-XCCT, MCX312B-XCCT, MCX312C-XCCT, MCX313A-BCCT, MCX314A-BCCT Note: No RDMA support. [EOL]	4.14.35-1818
Mellanox	ConnectX®-3 Pro VPI Adapter [EOL] Model(s) MCX353A-FCCT, MCX354A-FCCT Note: Ethernet mode only, and no RDMA support.	4.14.35-1818
Mellanox	ConnectX®-3 VPI Adapter [EOL] Model(s) MCX353A-QCBT, MCX354A-QCBT, MCX353A-FCBT, MCX354A-FCBT Note: Ethernet only, with no RDMA support.	4.14.35-1818
Mellanox	ConnectX®-4 EN Model(s) MCX415A, MCX416A, MCX413A, MCX414A Note: No RDMA support.	4.14.35-1902
Mellanox	ConnectX®-4 Lx EN Model(s) MCX4111A, MCX4121A, MCX4131A Note: No RDMA support.	4.14.35-1902

Mellanox	ConnectX®-5 Ex EN Model(s) MCX516A-CDAT, MCX512A-ADAT, MCX546A, MCX565M, MCX566A Note: No RDMA support.	4.14.35-1818
Mellanox	ConnectX®-5 VPI FDR/EDR Model(s) MCX555A-ECAT, MCX556A-EC	4.14.35-1902
Mellanox	ConnectX®-5 Model(s) MCX511F, MCX512A, MCX512F, MCX515A, MCX516A, MCX542A, MCX542B, MCX545A, MCX562A, MCX566A-CCAI Note: No RDMA support.	4.14.35-1818

Section 3: SAS/RAID

Vendor	Adapter	Minimum UEK Version
Broadcom Limited	MegaRAID® 9300 Series RAID Adapters [EOL] Model(s) 9341-16i, 9341-24i	4.14.35-1902
Broadcom Limited	MegaRAID® 9300 Series RAID Adapters [EOL] Model(s) 9341-4i, 9361-8i, 9361-16i, 9364-8i, 9361-24i, 9380-4i4e, 9380-8e, 9380-8i8e	4.14.35-1902
Broadcom Limited	MegaRAID® 9300 Series RAID Adapters [EOL] Model(s) 9361-8i8e, 9361-16i	4.14.35-1902
Broadcom Limited	MegaRAID® 9400 Series RAID Adapters Model(s) 9440-8i, 9460-8i, 9480-8i8e, 9460-16i	4.14.35-1902
Broadcom Limited	MegaRAID® 9500 Series Tri-Mode RAID Adapters Model(s) 9560-16i, 9560-8i, 9580-8i8e	4.14.35-1902
Broadcom Limited	SAS 9200 Series Host Bust Adapter (HBA) Family Model(s) 9201-16e, 9201-16i, 9206-16e, 9207-4i4e, 9207-8e, 9207-8i, 9208-8i, 9217-4i4e, 9217-8i Note: Product is end of life by manufacturer.	4.14.35-1818
Broadcom Limited	SAS 9300 Series Host Bust Adapter (HBA) Family Model(s) 9300-4i, 9300-4i4e, 9300-8e, 9300-8i, 9305-16, 9305-16i, 9305-24i	4.14.35-1902
Broadcom Limited	SAS 9400 Series Host Bust Adapter (HBA) Family Model(s) 9400-16e, 9400-16i, 9400-8e, 9400-8i, 9400-8i8e, 9405W-16e, 9405W-16i	4.14.35-1902
Broadcom Limited	SAS 9500 Series Tri-Mode Storage Adapter (HBA) Family Model(s) 9500-16e, 9500-16i, 9500-8e, 9500-8i	4.14.35-1902
Microchip	Adaptec® HBA 1000 12Gbps Host Bus Adapter Model(s) HBA 1000-8i, 1000-8e, 1000-8i8e, 1000-16e, 1000-16i	4.14.35-1818
Microchip	Adaptec® HBA 1100 12Gbps Host Bus Adapters Model(s) HBA 1100-16e, 1100-16i, 1100-24i, 1100-4i, 1100-8e, 1100-8i, 1100-8i8e	4.14.35-2047
Microchip	Adaptec® HBA 1200 24Gbps Host Bus Adapters Model(s) 1200-32i, 1200-16i, 1200-16e, 1200-16i, 1200-16e, 1200-8i, 1200-8e	4.14.35-2047
Microchip	Adaptec® SmartHBA 2100 12Gbps Host Bus Adapters Model(s) 2100-4i4e, 2100-24i, 2100-8i, 2100-8i8e, 2100-8e, 2100-4i	4.14.35-2047

Microchip	Adaptec® SmartHBA 2200 24Gbps Host Bus Adapters Model(s) 2200-16	4.14.35-2047
Microchip	Adaptec® SmartRAID 3100 12Gbps RAID Adapters Model(s) SmartRAID 3101-4i, 3102-8i, 3151-4i, 3152-8i, 3154-8e, 3154-8i	4.14.35-2047
Microchip	Adaptec® SmartRAID 3100 12Gbps RAID Adapters Model(s) SmartRAID 3154-8i16e, 3154-16i, 3154-8i8e, 3154-24i	4.14.35-2047
Microchip	Adaptec® SmartRAID 3100 12Gbps RAID Adapters Model(s) SmartRAID 3162-8i, 3162-8e	4.14.35-2047
Microchip	Adaptec® SmartRAID 3200 24Gbps RAID Adapters Model(s) 3258p-32i /e, 3258Up-16i /e, 3254U-16e /e, 3258-16i /e, 3254-16i /e, 3254-16e /e, 3254-8i, 3204-8i, 3252-8i	4.14.35-2047

UEK Release 4

Section 1: Storage

Vendor	Adapter	Minimum UEK Version
Broadcom Limited	Emulex® LightPulse® LPe12000 8Gb Fibre Channel Adapter Model(s) LPe12000, LPe12002, LPe12004, LPe1250	4.1.12-94
Broadcom Limited	Emulex® LightPulse® LPe16000 Fibre Channel Adapter (Gen5) Model(s) LPe16002, LPe16000B, LPe16002B, LPe16004	4.1.12-94
Broadcom Limited	Emulex® LightPulse® LPe31000/32000 Fibre Channel Adapter (Gen6) Model(s) LPe31000-M6, LPe31002-M6, LPe31004-M6 Note: No support for NVMe functions in UEK R4. Note: No NVMe-FC support prior to OL8 with UEK R6.	4.1.12-124
Broadcom Limited	Emulex® LightPulse® LPe31000/32000 Fibre Channel Adapter (Gen6) Model(s) LPe32000-M2, LPe32002-M2, LPe32004-M2 Note: No support for NVMe functions in UEK R4. Note: No NVMe-FC support prior to OL8 with UEK R6.	4.1.12-124
Broadcom Limited	Emulex® LightPulse® LPe35000/36000 Fibre Channel Adapter (Gen7) Model(s) LPe35000-M2, LPe35002-M2 Note: No NVMe-FC support prior to OL8 with UEK R6.	4.1.12-124.35
Broadcom Limited	Emulex® OneConnect OCe10000 10GbE Network Adapters Model(s) OCe10102-IX, OCe10102-IM (iSCSI)	4.1.12-94
Broadcom Limited	Emulex® OneConnect OCe11000 10GbE Network Adapters Model(s) OCe11102-IT, OCe11102-IX, OCe11102-IM (iSCSI)	4.1.12-94
Intel	Intel® Network Adapter 500 Series Model(s) X520-DA2, X520-SR2, X520-SR1, X540-T1, X540-T2, X550-T2, X550-T1 (iSCSI) Note: Supports speeds up to 25GbE.	4.1.12-124
Intel	Intel® Network Adapter 700 Series Model(s) X722-DA4, X722-DA2 (discontinued models) (iSCSI)	4.1.12-124

Marvell	Marvell® FastLinQ 41000 Series Multiport 10/25/50Gb Ethernet Adapters Model(s) QL41162 (10GbE); QL41254, QL41262 (10/25GbE) (iSCSI) Note: Support up to 25GbE. No support for HPE Synergy.	4.1.12-124
Marvell	Marvell® FastLinQ 45000 Series 10/25/40/50/100GbE Ethernet Adapters Model(s) QL45462 (10/40GbE) (iSCSI) Note: No support for HPE Synergy devices. Contact HPE.	4.1.12-124
Marvell	QLogic® 2500 Series 8G Fibre Channel Adapter Model(s) QLE2560, QLE2562, QLE2564	4.1.12-124
Marvell	QLogic® 2600 Series 16G Fibre Channel Adapter Model(s) QLE2670, QLE2672	4.1.12-124
Marvell	QLogic® 2600 Series 16G Fibre Channel Adapter Model(s) QLE2690, QLE2692 Note: No NVMe-FC support prior to OL8 with UEK R6.	4.1.12-124
Marvell	QLogic® 2600 Series 16G Fibre Channel Adapter Model(s) QLE2694, QLE2694L Note: No NVMe-FC support prior to OL8 with UEK R6.	4.1.12-124
Marvell	QLogic® 2740/2760 Series 16/32G Fibre Channel Adapter Model(s) QLE2740, QLE2742 Note: No NVMe-FC support prior to OL8 with UEK R6.	4.1.12-124
Marvell	QLogic® 2740/2760 Series 16/32G Fibre Channel Adapter Model(s) QLE2764 Note: No NVMe-FC support prior to OL8 with UEK R6.	4.1.12-124
Marvell	QLogic® FastLinQ 8200 Series 10GbE Adapters [EOL] Model(s) QLE8240/8242 (FCoE) Note: End of life.	4.1.12-61
Marvell	QLogic® FastLinQ 8200 Series 10GbE Adapters [EOL] Model(s) QLE8240/8242 (iSCSI) Note: End of life. No support with Oracle Linux 8.	4.1.12-61
Marvell	QLogic® FastLinQ 8300 Series 10GbE Adapters [EOL] Model(s) QLE8360/8362 (FCoE) Note: End of life.	4.1.12-61
Marvell	QLogic® FastLinQ 8300 Series 10GbE Adapters [EOL] Model(s) QLE8360/8362 (iSCSI) Note: End of life.	4.1.12-61
Marvell	QLogic® FastLinQ 8400 Series 10GbE CNA [EOL] Model(s) QLE8440, QLE8442 (FCoE) Note: End of life.	4.1.12-61
Marvell	QLogic® FastLinQ 8400 Series 10GbE CNA [EOL] Model(s) QLE8440, QLE8442 (iSCSI) Note: End of life. No support with Oracle Linux 8.	4.1.12-61

Section 2: Ethernet Networking

Vendor	Adapter	Minimum UEK Version
Broadcom Limited	Emulex® OneConnect OCe10000 10GbE Network Adapters Model(s) OCe10102-NX, OCe10102-NM Note: RDMA not supported.	4.1.12-124
Broadcom Limited	Emulex® OneConnect OCe11000 10GbE Network Adapters Model(s) OCe11102-NM, OCe11102-NX, OCe11102-NT, OCe11101-NM, OCe11101-NX Note: RDMA not supported.	4.1.12-94
Broadcom Limited	Emulex® OneConnect OCe14000 10/40GbE Ethernet Network Adapters Model(s) OCe14101-NX, OCe14101-NM, OCe14102-NX, OCe14102-NM, OCe14104-NX, OCe14104-NM, OCe14401-NX Note: No RDMA support.	4.1.12-94
Broadcom Limited	NetXtreme® E-Series Dual-Port 10/25GbE PCIe Adapter Model(s) P225p, M225p, M150P Note: No support for RDMA functions. Support for speeds up to 25GbE.	4.1.12-124
Broadcom Limited	NetXtreme® E-Series Dual-Port 10GbE PCIe Adapter Model(s) P210tep, P210tp, M210tp Note: No support for RDMA functions.	4.1.12-124
Intel	Intel® Network Adapter 500 Series Model(s) X520-DA2, X520-SR2, X520-SR1, X540-T1, X540-T2, X540-AT2, X550-T2, X550-T1 Note: Support for speeds up to 25GbE.	4.1.12-124
Intel	Intel® Network Adapter 700 Series Model(s) X722-DA4, X722-DA2 (discontinued models)	4.1.12-124
Marvell	Marvell® FastLinQ 3400 Series 10GbE Ethernet Adapters Model(s) QLE3442, QLE3440 Note: Ethernet only with HPE Synergy devices (no FCoE or iSCSI support). Contact HPE.	4.1.12-61.1.18
Marvell	Marvell® FastLinQ 41000 Series Multiport 10/25/50Gb Ethernet Adapters Model(s) QL41112, QL41132, QL41134, QL41162 (10GbE PCIe and OCP 3.0) Note: No RDMA support. Support up to 25GbE. No support for HPE Synergy.	4.1.12-124
Marvell	Marvell® FastLinQ 41000 Series Multiport 10/25/50Gb Ethernet Adapters Model(s) QL41212, QL41231, QL41232, QL41234, QL41254, QL41262 (10/25GbE PCIe) Note: No RDMA support. Support up to 25GbE.	4.1.12-124
Marvell	Marvell® FastLinQ 45000 Series 10/25/40/50/100GbE Ethernet Adapters Model(s) QL45211, QL45212 (1/10/25GbE) Note: No support for HPE Synergy environments having Virtual Connect.	4.1.12-124
Marvell	Marvell® FastLinQ 45000 Series 10/25/40/50/100GbE Ethernet Adapters Model(s) QL45411, QL45412, QL45462 (10/40GbE) Note: No support for HPE Synergy environments having Virtual Connect.	4.1.12-124
Marvell	QLogic® FastLinQ 8200 Series 10GbE Adapters [EOL] Model(s) QLE8240/8242 Note: End of life. No support with Oracle Linux 8.	4.1.12-61
Marvell	QLogic® FastLinQ 8300 Series 10GbE Adapters [EOL] Model(s) QLE8360/8362 Note: End of life.	4.1.12-61

Marvell	QLogic® FastLinQ 8400 Series 10GbE CNA [EOL] Model(s) QLE8440, QLE8442 Note: End of life. No support with Oracle Linux 8.	4.1.12-61
Mellanox	ConnectX®-3 EN Adapter [EOL] Model(s) MCX311A-XCAT, MCX312A-XCBT, MCX313A-BCBT, MCX314A-BCBT Note: No RDMA support.	4.1.12-124
Mellanox	ConnectX®-3 Pro EN Adapter [EOL] Model(s) MCX311A-XCCT, MCX312B-XCCT, MCX312C-XCCT, MCX313A-BCCT, MCX314A-BCCT Note: No RDMA support.	4.1.12-124
Mellanox	ConnectX®-3 Pro VPI Adapter [EOL] Model(s) MCX353A-FCCT, MCX354A-FCCT Note: Ethernet mode only, and no RDMA support.	4.1.12-124
Mellanox	ConnectX®-3 VPI Adapter [EOL] Model(s) MCX353A-QCBT, MCX354A-QCBT, MCX353A-FCBT, MCX354A-FCBT Note: Ethernet only, with no RDMA support.	4.1.12-124
Mellanox	ConnectX®-4 EN Model(s) MCX415A, MCX416A, MCX413A, MCX414A Note: Basic Ethernet support only, up to 25GbE. No RDMA support. No support for FlexQbg feature on HPE branded cards.	4.1.12-124.36
Mellanox	ConnectX®-4 Lx EN Model(s) MCX4111A, MCX4121A, MCX4131A Note: Basic Ethernet support only, up to 25GbE. No RDMA support.	4.1.12-124.36
Mellanox	ConnectX®-5 Model(s) MCX511F, MCX512A, MCX512F, MCX515A, MCX516A, MCX542A, MCX542B, MCX545A, MCX562A, MCX566A-CCAI Note: Basic Ethernet support only, up to 25GbE. No RDMA support.	4.1.12-124.36

Section 3: SAS/RAID

Vendor	Adapter	Minimum UEK Version
Broadcom Limited	MegaRAID® 9200 Series RAID Adapters Model(s) 9270-8i, 9271-4i, 9271-8i, 9271-8iCC, 9286-8e, 9286CV-8e, 9286CV-8eCC, 9217-8i, 9266-8i Note: Product is end of life by manufacturer.	4.1.12-112
Broadcom Limited	MegaRAID® 9300 Series RAID Adapters [EOL] Model(s) 9341-16i, 9341-24i	4.1.12-124
Broadcom Limited	MegaRAID® 9300 Series RAID Adapters [EOL] Model(s) 9341-4i, 9361-8i, 9361-16i, 9364-8i, 9361-24i, 9380-4i4e, 9380-8e, 9380-8i8e	4.1.12-124
Broadcom Limited	MegaRAID® 9300 Series RAID Adapters [EOL] Model(s) 9361-8i8e, 9361-16i	4.1.12-124
Broadcom Limited	MegaRAID® 9400 Series RAID Adapters Model(s) 9440-8i, 9460-8i, 9480-8i8e, 9460-16i	4.1.12-124
Broadcom Limited	SAS 9200 Series Host Bust Adapter (HBA) Family Model(s) 9201-16e, 9201-16i, 9206-16e, 9207-4i4e, 9207-8e, 9207-8i, 9208-8i, 9217-4i4e, 9217-8i Note: Product is end of life by manufacturer.	4.1.12-112

Broadcom Limited	SAS 9300 Series Host Bust Adapter (HBA) Family Model(s) 9300-4i, 9300-4i4e, 9300-8e, 9300-8i, 9305-16, 9305-16i, 9305-24i	4.1.12-124
Broadcom Limited	SAS 9400 Series Host Bust Adapter (HBA) Family Model(s) 9400-16e, 9400-16i, 9400-8e, 9400-8i, 9400-8i8e, 9405W-16e, 9405W-16i	4.1.12-124
Microchip	Adaptec® HBA 1000 12Gbps Host Bus Adapter Model(s) HBA 1000-8i, 1000-8e, 1000-8i8e, 1000-16e, 1000-16i	4.1.12-37
Microchip	Adaptec® HBA 1100 12Gbps Host Bus Adapters Model(s) HBA 1100-16e, 1100-16i, 1100-24i, 1100-4i, 1100-8e, 1100-8i, 1100-8i8e	4.1.12-103
Microchip	Adaptec® SmartHBA 2100 12Gbps Host Bus Adapters Model(s) 2100-4i4e, 2100-24i, 2100-8i, 2100-8i8e, 2100-8e, 2100-4i	4.1.12-103
Microchip	Adaptec® SmartRAID 3100 12Gbps RAID Adapters Model(s) SmartRAID 3101-4i, 3102-8i, 3151-4i, 3152-8i, 3154-8e, 3154-8i	4.1.12-103
Microchip	Adaptec® SmartRAID 3100 12Gbps RAID Adapters Model(s) SmartRAID 3154-8i16e, 3154-16i, 3154-8i8e, 3154-24i	4.1.12-103
Microchip	Adaptec® SmartRAID 3100 12Gbps RAID Adapters Model(s) SmartRAID 3162-8i, 3162-8e	4.1.12-103

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