QuickSpecs

HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter

Overview **For latest information on this product please use HPE Ethernet 10/25Gb Adapters QuickSpecs** HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter

Recommended SKU - This adapter is a recommended option that has been selected by HPE experts to provide the right technology for a range of workloads and market segments offering the best combination of performance, value and availability.

The HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 adapter for ProLiant servers provides full-featured, high performance, converged 25Gb Ethernet that accelerates IT services and increases data center efficiency across a broad range of I/O intensive enterprise, cloud and Telco workloads.

It offers a rich set of offload technologies including overlay network tunneling and storage as well as RDMA over Converged Ethernet (RoCE) capabilities that increase host efficiency and virtualization performance.

The HPE Ethernet 640FLR-SFP28 can provide up to 100Gb/s of converged bi-directional Ethernet bandwidth, helping to alleviate network bottlenecks. This adapter can also run at 10Gb for customers who have not changed the infrastructure/switches to 25Gb yet.



Overview



HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter

Platform Information

Participan

Models

HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter

817749-B21

Kit Contents

HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter

Quick install card

Product warranty statement

HPE ProLiant DL160 Gen9 Server

Compatibility -Supported Servers

HPE ProLiant DL360 Gen9 Server
HPE ProLiant DL360 Gen10 Server
HPE ProLiant DL380 Gen9 Server
HPE ProLiant DL380 Gen10 Server
HPE ProLiant DL385 Gen10 Server
HPE ProLiant DL560 Gen9 Server
HPE ProLiant DL560 Gen9 Server
HPE ProLiant DL560 Gen10 Server
HPE ProLiant DL580 Gen10 Server
HPE ProLiant DL580 Gen10 Server
HPE Apollo 2000 - XL1x0r Gen9 Server

HPE Apollo 4200 Gen9 Server

HPE Apollo 4500 – XL450 Gen9 Server HPE Apollo 6000 – XL230a Gen9 Server HPE Apollo 6000 – XL250a Gen9 Server HPE Apollo 6500 – XL270d Gen10 Server

NOTE: This is a list of supported servers. Some may be discontinued.

Standard Features

At a Glance Features

- Dual 25Gb ports provide up to 100Gb bi-directional per adapter
- Converges RoCE with LAN traffic on a single 25GbE wire
- Tunnel Offload support for VXLAN and NVGRE
- RDMA over Converged Ethernet (RoCE) for greater server efficiency and lower latency
- Supports UEFI and legacy boot options
- Industry-leading throughput and latency performance
- Over eight million small packets/s, ideal for web/mobile applications, mobile messaging, and social media
- FlexibleLOM Adapter
- Greater bandwidth with PCIe 3.0
- Jumbo Frames support
- Active Health Systems support
- Support for Preboot eXecution Environment (PXE)
- Supports receive-side scaling (RSS) for the efficient distribution of network receive processing across multiple CPUs in multiprocessor systems
- Support for Windows SMB Direct
- Supports VMWare NetQueue, Microsoft Virtual Machine Queue (VMQ) for Windows
- Supports SR-IOV
- Supports Wake-on-LAN (WoL)

Throughput-Theoretical Bandwidth

This adapter delivers 50 Gb/s bi-directional Ethernet transfer rate per port (100 Gb/s per adapter), providing the network performance needed to improve response times and alleviate bottlenecks.

802.1p QoS Tagging

IEEE quality of service (QoS) 802.1p tagging allows the adapter to mark or tag frames with a priority level across a QoS-aware network for improved traffic flow.

802.1Q VLANs

IEEE 802.1Q virtual local area network (VLAN) protocol allows each physical port of this adapter to be separated into multiple virtual NICs for added network segmentation and enhanced security and performance. VLANs increase security by isolating traffic between users. Limiting the broadcast traffic to within the same VLAN domain also improves performance.

Configuration Utilities

This adapter ships with a suite of operating system-tailored configuration utilities that allow the user to enable initial diagnostics and configure adapter teaming. This includes a patented teaming GUI for Microsoft Windows operating systems. Additionally, support for scripted installations of teams in a Microsoft Windows environment allow for unattended OS installations.

DPDK

This adapter supports DPDK with benefit for packet processing acceleration and use in NFV deployments.

Interrupt Coalescing

Interrupt coalescing (interrupt moderation) groups multiple packets, thereby reducing the number of interrupts sent to the host. This process optimizes host efficiency, leaving the CPU available for other duties.

Standard Features

Jumbo Frames	This adapter supports Jumbo Frames (also known as extended frames), permitting up to a 9,600 byte (KB) transmission unit (MTU) when running Ethernet I/O traffic. This is over six times the size of a standard 1500-byte Ethernet frame. With Jumbo Frames, networks can achieve higher throughput performance and greater CPU utilization. These attributes are particularly useful for database transfer and tape backup operations.			
LED Indicators	LED indicators show link integrity and network activity for easy troubleshooting.			
Management Support	This adapter ships with agents that can be managed from HPE Systems Insight Manager or other management application that support SNMP.			
Message Signaled Interrupt (Extended) (MSI-X)	Message Signaled Interrupt (Extended) provides performance benefits for multi-core servers by load balancing interrupts between CPUs/cores.			
PCI Express Interface	This adapter is designed with an eight lane (x8) PCI Express bus based on the PCIe 3.0 standard. The adapte is backward compatible with four lane (x4) PCI Express, automatically auto-sensing between x8 and x4 slots			
Preboot eXecution Environment (PXE)	Support for PXE enables automatic deployment of computing resources remotely from anywhere. It allows a new or existing server to boot over the network and download software, including the operating system, from a management/ deployment server at another location on the network. Additionally, PXE enables decentralized software distribution and remote troubleshooting and repairs.			
Server Integration	This adapter is a validated, tested, and qualified solution that is optimized for HPE ProLiant servers. Hewl Packard Enterprise validates a wide variety of major operating systems drivers with the full suite of web-base enterprise management utilities including HPE Intelligent Provisioning and HPE Systems Insight Manager that simplify network management. This approach provides a more robust and reliable networking solution than offerings from other vendors a provides users with a single point of contact for both their servers and their network adapters.			
TCP/UDP/IP	For overall improved system response, this adapter supports standard TCP/IP offloading techniques included TCP/IP, UDP checksum offload (TCO) moves the TCP and IP checksum offloading from the CPU to the network adapter. Large send offload (LSO) or TCP segmentation offload (TSO) allows the TCP segmentation to handled by the adapter rather than the CPU.			
Tunnel Offload	Minimize the impact of overlay networking on host performance with tunnel offload support for VXLAN, NVGRE and GENEVE. By offloading packet processing to adapters, customers can use overlay networking to increase VM migration flexibility and virtualized overlay networks with minimal impact to performance. HPE Tunnel Offloading increases I/O throughput, reduces CPU utilization, and lowers power consumption. Tunnel Offload supports VMware's VXLAN, Microsoft's NVGRE solutions and Generic Network Virtualization Encapsulation (GENEVE) solutions.			

Standard Features

Wake-on-LAN

This adapter provides Wake-on-LAN (WoL) support through the PCI Express bus. A system that supports Wake-on-LAN can remain available to the systems administrator during its normal downtime. Once the machine is awakened, the systems administrator can remotely control, audit, debug, or manage the machine.

Warranty

Maximum: The remaining warranty of the HPE product in which it is installed (to a maximum three-year, limited warranty).

Minimum: One year limited warranty.

NOTE: Additional information regarding worldwide limited warranty and technical support is available at: http://h17007.www1.hpe.com/us/en/enterprise/servers/warranty/index.aspx#.V4e3tPkrJhE

Service and Support

Service and Support

NOTE: This adapter is covered under HPE Support Services/ Service Contract applied to the HPE ProLiant Server or enclosure. No separate HPE Support Services# need to be purchased.

Most HPE branded options sourced from HPE that are compatible with your product will be covered under your main product support at the same level of coverage, allowing you to upgrade freely. Additional support is required on select workload accelerators, switches, racks and UPS options 12KVA and over. Coverage of the UPS battery is not included under HPE support services; standard warranty terms and conditions apply.

Warranty and Support Services

Warranty and Support Services will extend to include HPE options configured with your server or storage device. The price of support service is not impacted by configuration details. HPE sourced options that are compatible with your product will be covered under your server support at the same level of coverage allowing you to upgrade freely. Installation for HPE options is available as needed. To keep support costs low for everyone, some high value options will require additional support. Additional support is only required on select high value workload accelerators, fibre switches, InfiniBand and UPS options 12KVA and over. Coverage of the UPS battery is not included under TS support services; standard warranty terms and conditions apply.

Protect your business beyond warranty with HPE Support Services

HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to HPE to help prevent problems and solve issues faster. HPE Support Services enable you to choose the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement to the support you need for your IT and business. Protect your product, beyond warranty.

Parts and Materials

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements. Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services. The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.

For more information

Visit the Hewlett Packard Enterprise Service and Support website.

Related Options

Cables - Direct Attach HPE 25Gb SFP28 to SFP28 0.5m Direct Attach Copper Cable HPE 25Gb SFP28 to SFP28 and Direct Attach Copper Cable HPE 25Gb SFP28 to SFP28 3m Direct Attach Copper Cable HPE 25Gb SFP28 to SFP28 5m Direct Attach Copper Cable HPE 25Gb SFP28 to SFP28 5m Direct Attach Copper Cable HPE 25Gb SFP28 to SFP28 5m Direct Attach Copper Cable HPE X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable HPE X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable HPE X242 10G SFP+ to SFP+ Active Copper 1.0m Direct Attach Cable HPE B-series SFP+ to SFP+ Active Copper 3.0m Direct Attach Cable HPE B-series SFP+ to SFP+ Active Copper 3.0m Direct Attach Cable HPE B-series SFP+ to SFP+ Active Copper 5.0m Direct Attach Cable HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 5m Direct Attach Copper Cable HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 5m Direct Attach Copper Cable HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable HPE FlooGb QSFP28 to 4x25Gb SFP28 3m Direct Attach Cable HPE 100Gb QSFP28 to 4x25Gb SFP28 3m Direct Attach Cable HPE 100Gb QSFP28 to 4x25Gb SFP28 5m Direct Attach Cable HPE 100Gb QSFP28 to 4x25Gb SFP28 5m Direct Attach Cable HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable NOTE: Direct Attach Cable (DAC) must be purchased separately for copper environments. Cables - Fiber Optic HPE 10 LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ83AA HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ83AA HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ83AA HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ83AA HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ83BA HPE LC To LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ83BA HPE			
HPE 25Gb SFP28 to SFP28 3 m Direct Attach Copper Cable HPE 25Gb SFP28 to SFP28 3 m Direct Attach Copper Cable HPE 25Gb SFP28 to SFP28 5 m Direct Attach Copper Cable HPE X242 10G SFP+ to SFP+ 3 m Direct Attach Copper Cable HPE X242 10G SFP+ to SFP+ 3 m Direct Attach Copper Cable HPE X242 10G SFP+ to SFP+ 3 m Direct Attach Copper Cable J92838 HPE X242 10G SFP+ to SFP+ Active Copper 1.0 m Direct Attach Cable AP81.8A HPE B-series SFP+ to SFP+ Active Copper 3.0 m Direct Attach Cable AP81.9A HPE B-series SFP+ to SFP+ Active Copper 3.0 m Direct Attach Cable AP81.9A HPE B-series SFP+ to SFP+ Active Copper 5.0 m Direct Attach Cable AP82.0A HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 5 m Direct Attach Copper Cable HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 5 m Direct Attach Copper Cable HPE FlexNetwork X240 10G SFP+ to SFP+ 5 m Direct Attach Copper Cable JD095C HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2 m Direct Attach Copper Cable JD096C HPE FlexNetwork X240 10G SFP+ to SFP+ 3 m Direct Attach Copper Cable JD097C HPE 100Gb 0SFP28 to 4x25Gb SFP28 3 m Direct Attach Cable B45416-B21 HPE 100Gb 0SFP28 to 4x25Gb SFP28 5 m Direct Attach Cable B45416-B21 HPE 100Gb 0SFP28 to 4x25Gb SFP28 5 m Direct Attach Cable B45418-B21 NOTE: Direct Attach Cable (DAC) must be purchased separately for copper environments. Cables - Fiber Optic HPE LC to LC Multi-mode 0M3 2-Fiber 0.5 m 1-Pack Fiber Optic Cable AJ835A HPE LC to LC Multi-mode 0M3 2-Fiber 5.0 m 1-Pack Fiber Optic Cable AJ836A HPE LC to LC Multi-mode 0M3 2-Fiber 5.0 m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode 0M3 2-Fiber 5.0 m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode 0M3 2-Fiber 5.0 m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode 0M3 2-Fiber 5.0 m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode 0M3 2-Fiber 5.0 m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode 0M3 2-Fiber 5.0 m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode 0M3 2-Fiber 5.0 m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode 0M5 2-Fiber 5.0 m 1-Pack F	Cables - Direct Attach	HPE 25Gb SFP28 to SFP28 0.5m Direct Attach Copper Cable	844471-B21
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HPE B-series SFP+ to SFP+ Active Copper 1.0m Direct Attach Cable AP818A HPE B-series SFP+ to SFP+ Active Copper 3.0m Direct Attach Cable AP820A HPE B-series SFP+ to SFP+ Active Copper 5.0m Direct Attach Cable AP820A HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 1D Direct Attach Copper Cable 487652-B21 HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 5m Direct Attach Copper Cable 537963-B21 HPE FlexNetwork X240 10G SFP+ to SFP+ 0.5m Direct Attach Copper Cable JD095C HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable JD096C HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable JD097C HPE 100Gb OSFP28 to 4x25Gb SFP28 3m Direct Attach Copper Cable JD097C HPE 100Gb OSFP28 to 4x25Gb SFP28 3m Direct Attach Cable 845416-B21 HPE 100Gb OSFP28 to 4x25Gb SFP28 5m Direct Attach Cable 845418-B21 NOTE: Direct Attach Cable (DAC) must be purchased separately for copper environments. Cables - Fiber Optic HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable AJ834A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ839A NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments. Transceivers HPE 25Gb SFP28 SR 1.00m Transceiver 45588-B21 HPE BladeSystem c-Class 1.0Gb SFP+ SR Transceiver 45588-B21 HPE BladeSystem c-Class 1.0Gb SFP+ LR Transceiver 45588-B21 HPE SB BladeSystem c-Class 1.0Gb SFP+ LR Transceiver 45588-B21 HPE BladeSystem c-C		HPE X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B
HPE B-series SFP+ to SFP+ Active Copper 3.0m Direct Attach Cable AP819A HPE B-series SFP+ to SFP+ Active Copper 5.0m Direct Attach Cable AP820A HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 1m Direct Attach Copper Cable 487652-B21 HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 5m Direct Attach Copper Cable 537963-B21 HPE FlexNetwork X240 10G SFP+ to SFP+ 0.85m Direct Attach Copper Cable JD096C HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable JD096C HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable JD097C HPE 100Gb QSFP28 to 4x25Gb SFP28 3m Direct Attach Cable 845416-B21 HPE 100Gb QSFP28 to 4x25Gb SFP28 5m Direct Attach Cable 845416-B21 HPE 100Gb QSFP28 to 4x25Gb SFP28 5m Direct Attach Cable 845418-B21 NOTE: Direct Attach Cable (DAC) must be purchased separately for copper environments. Cables - Fiber Optic HPE LC to LC Multi-mode 0M3 2-Fiber 0.5m 1-Pack Fiber Optic Cable AJ83AA HPE LC to LC Multi-mode 0M3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ836A HPE LC to LC Multi-mode 0M3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode 0M3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode 0M3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ839A NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments. Transceivers HPE 25Gb SFP28 SR 100m Transceiver 455883-B21 HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver 455886-B21 HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver 455886-B21 HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver 455886-B21 HPE S132 10G SFP+ LC SR Transceiver 50m		HPE X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285B
HPE B-series SFP+ to SFP+ Active Copper 5.0m Direct Attach Cable AP820A HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 1m Direct Attach Copper Cable 487652-B21 HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 5m Direct Attach Copper Cable 537963-B21 HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable JD095C HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable JD096C HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable JD097C HPE 100Gb QSFP28 to 4x25Gb SFP28 3m Direct Attach Copper Cable JD097C HPE 100Gb QSFP28 to 4x25Gb SFP28 5m Direct Attach Cable 845416-B21 HPE 100Gb QSFP28 to 4x25Gb SFP28 5m Direct Attach Cable 845418-B21 NOTE: Direct Attach Cable (DAC) must be purchased separately for copper environments. Cables - Fiber Optic HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable AJ833A HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable AJ836A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ836A HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ839A NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments. Transceivers HPE 25Gb SFP28 SR 100m Transceiver 455883-B21 HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver 455886-B21 HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver 455886-B21 HPE X132 10G SFP+ LC SR Transceiver J9150A		HPE B-series SFP+ to SFP+ Active Copper 1.0m Direct Attach Cable	AP818A
HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 1m Direct Attach Copper Cable HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 5m Direct Attach Copper Cable HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable JD095C HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable JD096C HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable JD096C HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable JD097C HPE 100Gb OSFP28 to 4x25Gb SFP28 3m Direct Attach Cable HPE 100Gb OSFP28 to 4x25Gb SFP28 3m Direct Attach Cable HPE 100Gb OSFP28 to 4x25Gb SFP28 5m Direct Attach Cable HPE 100Gb OSFP28 to 4x25Gb SFP28 5m Direct Attach Cable HPE 100Gb OSFP28 to 4x25Gb SFP28 5m Direct Attach Cable HPE 100Gb OSFP28 to 4x25Gb SFP28 5m Direct Attach Cable HPE 100Gb OSFP28 to 4x25Gb SFP28 5m Direct Attach Cable HPE 100Gb OSFP28 to 4x25Gb SFP28 5m Direct Attach Cable HPE 100Gb OSFP28 to 4x25Gb SFP28 5m Direct Attach Cable HPE 100Gb OSFP28 to 4x25Gb SFP28 5m Direct Attach Cable HPE 100Gb OSFP28 to 4x25Gb SFP28 5m Direct Attach Cable HPE 100Gb OSFP28 to 4x25Gb SFP28 5m Direct Attach Cable AJ833A HPE 100Gb OSFP28 to 4x25Gb SFP28 5m Direct Attach Cable AJ833A HPE 100Gb OSFP28 5m 100Gb OSFP28 5m 1-Pack Fiber Optic Cable AJ834A HPE 100Gb OSFP28 5m 100M Transceiver HPE 100G		HPE B-series SFP+ to SFP+ Active Copper 3.0m Direct Attach Cable	AP819A
HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 5m Direct Attach Copper Cable HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable JD095C HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable JD096C HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable JD097C HPE 100Gb QSFP28 to 4x25Gb SFP28 3m Direct Attach Copper Cable JD097C HPE 100Gb QSFP28 to 4x25Gb SFP28 5m Direct Attach Cable HPE 100Gb QSFP28 to 4x25Gb SFP28 5m Direct Attach Cable NOTE: Direct Attach Cable (DAC) must be purchased separately for copper environments. Cables - Fiber Optic HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable AJ833A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ836A HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ839A NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments. Transceivers HPE 25Gb SFP28 SR 100m Transceiver 455883-B21 HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver 455886-B21 HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver J9150A		HPE B-series SFP+ to SFP+ Active Copper 5.0m Direct Attach Cable	AP820A
HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable JD096C HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable JD097C HPE 100Gb QSFP28 to 4x25Gb SFP28 3m Direct Attach Copper Cable HPE 100Gb QSFP28 to 4x25Gb SFP28 5m Direct Attach Cable 845416-B21 HPE 100Gb QSFP28 to 4x25Gb SFP28 5m Direct Attach Cable NOTE: Direct Attach Cable (DAC) must be purchased separately for copper environments. Cables - Fiber Optic HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable AJ833A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ836A HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ839A NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments. Transceivers HPE 25Gb SFP28 SR 100m Transceiver HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver 455883-B21 HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver 455886-B21 HPE X132 10G SFP+ LC SR Transceiver J9150A			487652-B21
HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable JD097C HPE 100Gb QSFP28 to 4x25Gb SFP28 3m Direct Attach Cable HPE 100Gb QSFP28 to 4x25Gb SFP28 5m Direct Attach Cable HPE 100Gb QSFP28 to 4x25Gb SFP28 5m Direct Attach Cable NOTE: Direct Attach Cable (DAC) must be purchased separately for copper environments. Cables - Fiber Optic HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable AJ833A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ836A HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ839A NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments. Transceivers HPE 25Gb SFP28 SR 100m Transceiver HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver 455883-B21 HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver 455886-B21 HPE X132 10G SFP+ LC SR Transceiver J9150A			
HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable HPE 100Gb QSFP28 to 4x25Gb SFP28 3m Direct Attach Cable HPE 100Gb QSFP28 to 4x25Gb SFP28 5m Direct Attach Cable HPE 100Gb QSFP28 to 4x25Gb SFP28 5m Direct Attach Cable NOTE: Direct Attach Cable (DAC) must be purchased separately for copper environments. HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable AJ833A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ836A HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable AJ839A NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments. Transceivers		HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	
HPE 100Gb QSFP28 to 4x25Gb SFP28 3m Direct Attach Cable 845416-B21 HPE 100Gb QSFP28 to 4x25Gb SFP28 5m Direct Attach Cable 845418-B21 NOTE: Direct Attach Cable (DAC) must be purchased separately for copper environments. Cables - Fiber Optic HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable AJ833A HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable AJ836A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ839A NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments. Transceivers HPE 25Gb SFP28 SR 100m Transceiver 845398-B21 HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver 455886-B21 HPE MASS ABS ABS ABS ABS ABS ABS ABS ABS ABS			JD096C
HPE 100Gb QSFP28 to 4x25Gb SFP28 5m Direct Attach Cable NOTE: Direct Attach Cable (DAC) must be purchased separately for copper environments. Repeated to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ839A NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments. Transceivers HPE 25Gb SFP28 SR 100m Transceiver HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver HPE ST32 10G SFP+ LC SR Transceiver J9150A		HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
Cables - Fiber Optic HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ834A HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ836A HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ839A NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments. Transceivers HPE 25Gb SFP28 SR 100m Transceiver HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver HPE SX132 10G SFP+ LC SR Transceiver J9150A		HPE 100Gb QSFP28 to 4x25Gb SFP28 3m Direct Attach Cable	845416-B21
Cables - Fiber Optic HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable AJ836A HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable AJ837A HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable AJ839A NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments. Transceivers HPE 25Gb SFP28 SR 100m Transceiver HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver HPE S132 10G SFP+ LC SR Transceiver J9150A			
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HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments. Transceivers HPE 25Gb SFP28 SR 100m Transceiver HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver HPE St32 10G SFP+ LC SR Transceiver HPE X132 10G SFP+ LC SR Transceiver J9150A	Cables - Fiber Optic	HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable AJ838A HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ839A NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments. Transceivers HPE 25Gb SFP28 SR 100m Transceiver HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver HPE X132 10G SFP+ LC SR Transceiver J9150A	•	HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable AJ839A NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments. HPE 25Gb SFP28 SR 100m Transceiver HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver HPE X132 10G SFP+ LC SR Transceiver J9150A		HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments. Transceivers HPE 25Gb SFP28 SR 100m Transceiver HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver HPE MadeSystem c-Class 10Gb SFP+ LR Transceiver HPE X132 10G SFP+ LC SR Transceiver J9150A		HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments. Transceivers HPE 25Gb SFP28 SR 100m Transceiver HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver HPE X132 10G SFP+ LC SR Transceiver HPE X132 10G SFP+ LC SR Transceiver J9150A		·	
Transceivers HPE 25Gb SFP28 SR 100m Transceiver HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver HPE X132 10G SFP+ LC SR Transceiver J9150A		·	
HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver 455883-B21 HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver 455886-B21 HPE X132 10G SFP+ LC SR Transceiver J9150A		NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic	environments.
HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver 455886-B21 HPE X132 10G SFP+ LC SR Transceiver J9150A	Transceivers	HPE 25Gb SFP28 SR 100m Transceiver	845398-B21
HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver 455886-B21 HPE X132 10G SFP+ LC SR Transceiver J9150A		HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver	455883-B21
HPE X132 10G SFP+ LC SR Transceiver J9150A		·	455886-B21
HPE X132 10G SFP+ LC LRM Transceiver J9152A		·	J9150A
		HPE X132 10G SFP+ LC LRM Transceiver	J9152A

NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments.

Technical Specifications

General Specifications

Network Processor

Mellanox ConnectX-4 Lx **Data Rate**

Two ports, each at 50Gb/s bi-directional; 100Gb/s aggregate bi-directional

theoretical bandwidth

Bus type PCI Express 3.0 (Gen 3) x8 Form Factor FlexibleLOM

IEEE Compliance 802.3ae, 802.1Q, 802.3x, 802.1p, 802.3ad/LACP, 802.1AB(LLDP),

802.1Qbg, 802.1Qbb, 802.1Qaz, 802.3az, 802.3AS, 802.1Qau, IEEE 1588v2

Connector Two SFP28 (SR, DAC)

Power and **Environmental Specifications**

Power

10.5W typical, 14W maximum 5° to 60° C (41° to 140° F) **Temperature - Operating Temperature - Non-Operating** 40° to 70° C (- 40° to 158° F)

Humidity - Operating 8% to 90% relative humidity

Humidity - Non-operating Minimum to be the higher (more moisture) of -12°C (10.4°F) dew point or 8%

relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F)

dew point or 90% relative humidity. non-condensing.

RoHS Compliance

Other

RoHS compliance 6 of 6

PCle 3.0 Pv4. IPv6

CE

Microsoft WHQL (Windows Hardware Quality Labs)

Operating System and Virtualization Support The Operating Systems supported by this adapter are based on the server OS support. Please refer to the OS Support Matrix at https://www.hpe.com/us/en/server-operating-systems.html.

Environmentfriendly Products and Approach - End-oflife Management and Recycling

Hewlett Packard Enterprise offers end-of-life product return, trade-in, and recycling programs, in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE Directive (2012/19/EU) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard Enterprise web site. These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

Summary of Changes

Date	Version History	Action	Description of Change
07-May-2018	Version 10	Changed	Compatibility section was updated
05-Feb-2018	Version 9	Changed	Overview section was updated
18-Dec-2017	Version 8	Changed	Standard Features-Related Options-Cables- Direct Attached and Product Information- Compatibility were updated
06-Nov-2017	Version 7	Changed	Technical Specification-OS and Virtualization Support section was updated.
16-Oct-2017	Version 6	Changed	Overview and Technical Specification- OS were updated.
11-Jul-2017	Version 5	Changed	Compatibility section was updated.
27-Mar-2017	Version 4	Changed	Compatibility server list was updated.
07-Oct-2016	Version 3	Changed	Added DPDK and remove switches.
22-Jul-2016	Version 2	Changed	QuickSpecs sections were updated.
06-Jun-2016	Version 1	Created	New QuickSpecs.



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