

HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter (817749-B21)

Overview

Stuck in network traffic at 10Gbps? Time to take the Express Lane with HPE 25GbE Adapters. With the rise in volume of mobile data and video and the frequency in which it's accessed, legacy technologies are struggling to handle the increased throughput and lack the capabilities to cost-effectively scale. Current approaches to managing the increasing data center traffic require higher bandwidth and are cost prohibitive, keeping organizations from easily growing as their needs grow. The HPE Ethernet 10/25Gb 2-port FLR-SFP28 CX4 Adapter is a FlexibleLOM form factor for select HPE ProLiant Server DL family of rack and HPE Apollo Servers that delivers high-performance solutions to Telco, services providers, financial institutions and enterprises to meet higher bandwidth demand.

Features

Address the Increasing Demand for an Overlay Network

The HPE Ethernet 10/25Gb 2-port FLR-SFP28 CX4 Adapter reduces the impact of overlay networking on host performance with tunnel offload support for VXLAN and NVGRE, increasing VM migration flexibility and network scale with minimal impact to performance.

Decouples virtual overlay network layer from the physical NIC performance.

Auto negotiates to 10GbE for immediate future proofing.

More Efficient and Faster Way to Send Data with RDMA Over Converged Ethernet (RoCE)

The HPE Ethernet 10/25Gb 2-port FLR-SFP28 CX4 Adapter bypasses the TCP/IP stack and removes of a data copy step reducing overall latency to deliver accelerated performance for applications such as Microsoft® Hyper-V® Live Migration, Microsoft SQL® and Microsoft SharePoint with SMB Direct.

RDMA over Converged Ethernet (RoCE) for greater server efficiency and lower

latency.

Lower Latency and Higher Throughput with Messaging Accelerator (VMA)

The HPE Ethernet 10/25Gb 2-port FLR-SFP28 CX4 Adapter reduces system latency for improved performance specifically for high-frequency trading operations while maintaining high message rates and hundreds of simultaneous connections.

Contains VMA, an included firmware with many benefits such as lower latency, higher throughput, improved CPU utilization and minimal buffer copies between user data and hardware.

Technical specifications

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

Product Number	817749-B21
Technology	Network processor
Network processor	Mellanox CX4LX
Data rate	25Gb
Bus type	PCIe Gen3 x8
Form factor	A-LOM
Power	Typical - 10.5 W Max - 14.0 W
Server type supported	ProLiant servers
IEEE compliance	802.3ae, 802.1Q, 802.3x, 802.1p, 802.3ad/LACP, 802.1AB(LLDP), 802.1Qbg, 802.1Qbb, 802.1Qaz, 802.3an
Compatible operating systems	Windows:Microsoft Windows Server 2012, 2012 R2, 2008, 2008 R2 w/ SP1 (x64)Microsoft Windows Hyper-V 2008 R2 w/SP1, 2012, 2012 R2Linux:Red Hat Enterprise Linux 6.5, 6.6 (x64)SUSE Linux Enterprise Server 11, SP3 (x64)HyperVisors:Citrix XenServer 6.5 (Creedence)Citrix XenServer (Naples) (x64)
Product dimensions (metric)	1.37 x 12.11 x 7.67 cm
Weight	0.09 kg
Connector type	SFP28
Supported cables	10Gb - Active Optical Cable (AOC) 10Gb - Direct Attach Copper (DAC) 25Gb - Active Optical Cable28 (AOC28) 25Gb - Direct Attach Copper28 (DAC28)



[For additional technical information, available models and options, please reference the QuickSpecs](#)

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[The Defective Media Retention \(DMR\)](#) service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction. [Comprehensive Defective Material Retention \(CDMR\)](#) allows you to keep all data retentive components.

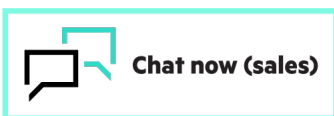
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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

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.

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