

# 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

<b>Product Number</b>	817749-B21
<b>Technology</b>	Network processor
<b>Network processor</b>	Mellanox CX4LX
<b>Data rate</b>	25Gb
<b>Bus type</b>	PCIe Gen3 x8
<b>Form factor</b>	A-LOM
<b>Power</b>	Typical - 10.5 W Max - 14.0 W
<b>Server type supported</b>	ProLiant servers
<b>IEEE compliance</b>	802.3ae, 802.1Q, 802.3x, 802.1p, 802.3ad/LACP, 802.1AB(LLDP), 802.1Qbg, 802.1Qbb, 802.1Qaz, 802.3an
<b>Compatible operating systems</b>	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)
<b>Product dimensions (metric)</b>	1.37 x 12.11 x 7.67 cm
<b>Weight</b>	0.09 kg
<b>Connector type</b>	SFP28
<b>Supported cables</b>	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](#)

## HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

### Consulting services

Experts can help you map out your path to hybrid cloud and optimize your operations.

### Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

### Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

- HPE Complete Care Service: a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.
- HPE Tech Care Service: the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

### Lifecycle Services

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### HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.

[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.

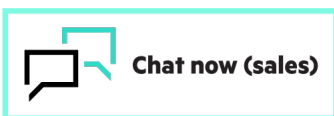
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Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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