



# **HPE ETHERNET 10/25GB 2-PORT FLR-SFP28 MCX4121A-ACFT ADAPTER (817749-B21)**

## **Host Adapters**

### **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 FLR-SFP28  
MCX4121A-ACFT Adapter**

<b>Product Number (SKU)</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)



Most, if not all IT organizations are on a digital transformation journey — each at a different stage. With over 11,000 IT projects conducted and 1.4 million customer interactions each year, [HPE Pointnext Services](#)' 15,000+ experts and its vast ecosystem of solution partners and channel partners are uniquely able to help you at every stage of your digital transformation. We bring together technology and expertise to help you drive your business forward and prepare for whatever is next.

Advisory and Professional Services help you accelerate your digital transformation. [Operational Services](#) help you remove complexity and respond rapidly to business demands.

### **Operational Services from HPE Pointnext Services**

[HPE Pointnext Tech Care](#) provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

- **[HPE Datacenter Care](#)** helps modernize and simplify IT operations. Partner with an assigned account team, access technical expertise, an enhanced call experience gives you priority access, choose hardware and software support, implement proactive monitoring to help stay ahead of issues, and access HPE IT best practices and IP.
- **[HPE Proactive Care](#)** offers an enhanced call experience and helps reduce problems with personalized proactive reports and advice. This also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.). [Read more](#)
- **[HPE Foundation Care](#)** helps when there is a problem and has a choice of response levels. Collaborative software support is included and provides troubleshooting help for ISVs running on your server. [Read more](#).

### **Other related services**

**[Defective Media Retention](#)** is optional and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

**[HPE Service Credits](#)** offers a menu of technical services, access additional resources, and specialist skills.

**[HPE Education Services](#)** delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.



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

## HPE GREENLAKE

HPE Greenlake is HPE's market-leading IT as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model. HPE GreenLake delivers public cloud services and infrastructure for workloads on premises, fully managed in a pay per use model.

If you are looking for more services, like **IT financing solutions**, please [explore them here](#).

**Make the right purchase decision.  
Contact our presales specialists.**

[Call for availability](#)



**Chat now (sales)**



**Call now**



**Buy now**



**Share now**



**Get updates**

  
**Hewlett Packard  
Enterprise**

© Copyright 2021 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

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.

Microsoft® is a registered trademark of Microsoft Corporation in the United States and other countries. Hyper-V® is a registered trademark of Microsoft Corporation in the United States and other countries.

Image may differ from the actual product  
[PSN1009011756CZEN](#), August, 2021.