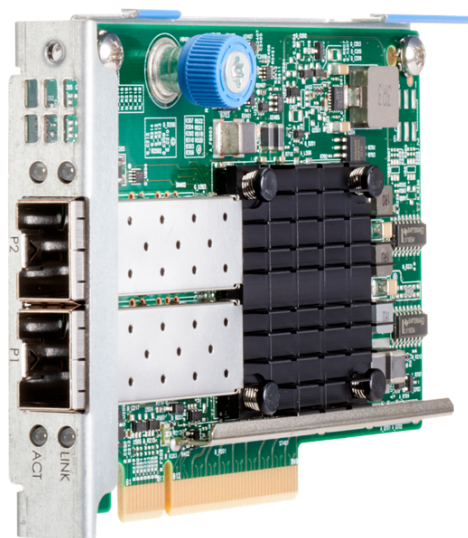


# HPE Ethernet 10/25Gb 2-port BCM57414 Adapter

HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter (817709-B21)



## Overview

Do you want to increase bandwidth and reduce network vulnerability while reducing costs? The HPE Ethernet 10/25Gb 2-port BCM57414 Adapters deliver the capability to drive either 10G (SFP+) or 25G (SFP28) speeds, providing the option for a large jump in Ethernet performance. Compared to a 10G implementation these adapters offer cost reductions by lowering the number of servers, adapters, cables and switches while accelerating server performance and targeted workloads. These adapters help prevent, detect and recover from cyber attacks by protecting applications, data and server infrastructure by authenticating digitally signed firmware via a Root of Trust architecture. In addition, they offer Secure Boot, Device-level Firewall and other advanced security features.

## Features

### Safeguard Your Data and Your Business Network

The HPE Ethernet 10/25Gb 2-port BCM57414 Adapter blocks installation of rogue or corrupted firmware and verifies that the executing firmware is trusted via Hardware Root of Trust and Authentication.

Stops unmanaged access to memory or storage with Device - level Firewall. This validates that on-device firmware and configuration data can only be accessed by authorized agents.

Provides traceability into authenticated firmware updates by capturing changes in standard system logs.

### Boosting I/O Bandwidth with Lower Latency

The HPE Ethernet 10/25Gb 2-port BCM57414 Adapter delivers single root I/O virtualization (SR-IOV) with the ability to run a large number of virtual machines (VMs) per server, which reduces the need for hardware and the resultant costs of space and power required by hardware devices.

Reduces CPU Utilization and helps improve host VM density and server efficiency using remote direct memory access (RDMA) over Converged Ethernet (RoCE v2) for Live Migration, Microsoft SMB Direct environments.

### Realize Breakthrough Economics

The HPE Ethernet 10/25Gb 2-port BCM57414 Adapter offloads packet processing to reduce CPU utilization and lower power with Tunnel Offloads (VXLAN and NVGRE).

Speeds packet processing to service more I/O requests utilizing data plane development packet (DPDK).

## Technical specifications

## HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter

<b>Product Number</b>	817709-B21
<b>Data rate</b>	10/25Gb
<b>Bus type</b>	PCIe Gen3 x8
<b>Form factor</b>	Standup&ALOM



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.

**HPE GreenLake**

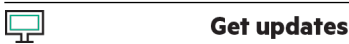
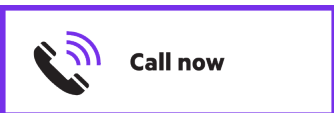
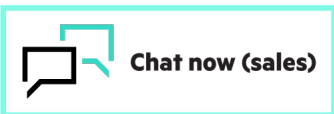
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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

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.

Image may differ from the actual product [PSN1009448075CZEN](#), August, 2024.