

# HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter (P31348-H21)

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## What's new

- The HDR InfiniBand and Ethernet adapters for HPE ProLiant Gen10 Plus servers are based on standard Mellanox ConnectX-6 technology.
- The HDR InfiniBand and Ethernet adapters are now available in the OCP 3.0 form factor with support for HPE iLO shared network port in Ethernet mode.

## Overview

Are you looking for extremely high-bandwidth and very low latency communications for your HPE Apollo System and HPE ProLiant DL rack mount server families?

The HPE HDR InfiniBand and Ethernet adapters are designed for customers who deploy high performance computing (HPC) systems with their HPE ProLiant XL and HPE ProLiant DL Gen10 and Gen10 Plus servers in the data center. The HPE InfiniBand HDR/HDR100 and Ethernet adapters are available as stand up cards or in the OCP 3.0 form factor, equipped with 1 port or 2 ports. Combined with HDR InfiniBand switches, they deliver low latency and up to 200Gbps bandwidth, ideal for performance-driven server and storage clustering applications in HPC and enterprise data centers.

## Features

### Low-Latency, High-Bandwidth InfiniBand Connectivity

HPE HDR InfiniBand adapters deliver up to 200Gbps bandwidth and a sub-microsecond latency for demanding HPC workloads.

The HPE InfiniBand HDR100 adapters, combined with HDR switches and HDR cables, are aimed at simplified infrastructure by reducing the number of required switches for a given 100Gbps InfiniBand fabric.

HPE HDR InfiniBand adapters are supported on the HPE Apollo XL and HPE ProLiant DL Gen10 and Gen10 Plus servers.

### Offloading Mechanisms

HPE HDR InfiniBand adapters include multiple offload engines that speed up communications by delivering a low CPU overhead for increasing throughput.

HPE HDR InfiniBand adapters support MPI tag matching and rendezvous offloads, along with adaptive routing on reliable transport.

## Technical specifications

## HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter

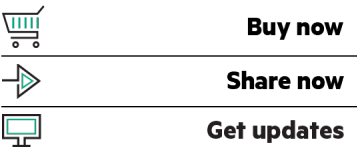
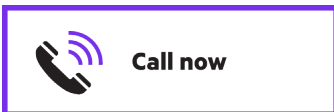
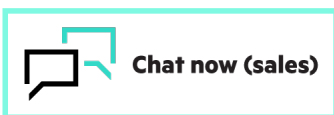
<b>Product Number</b>	P31348-H21
<b>Platform supported</b>	HPE Apollo/Integrity/SGI
<b>Data rate</b>	Up to 200 Gb total
<b>Bus type</b>	PCIe 4.0 x16
<b>Form factor</b>	OCP 3.0 SFF
<b>Server type supported</b>	HPE Apollo Gen10 Plus Systems
<b>Product dimensions (imperial)</b>	2.99 x 4.52 x 0.6 in
<b>Weight</b>	0.966 lb
<b>Warranty</b>	3-year warranty, parts exchange
<b>Connector type</b>	QSFP56
<b>Supported cables</b>	DAC and AOC



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

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## HPE Services

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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.

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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

HPE GreenLake edge-to-cloud platform is HPE's market-leading 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, 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](#).



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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  
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