

HPE EDR InfiniBand Adapters

What's new

- The 841QSFP28 adapters are based on Mellanox® ConnectX-5 technology.
- The 840QSFP28 adapters are based on Mellanox ConnectX-4 technology.

Overview

Are you looking for an HPE EDR InfiniBand Adapter for your HPE ProLiant XL and HPE ProLiant DL Gen9 and Gen10 server families?

The HPE InfiniBand EDR and 100 Gb Ethernet adapters are designed for customers who deploy high performance computing (HPC) systems with their HPE ProLiant XL and DL Gen9 and Gen10 servers in the data center. The HPE InfiniBand EDR and 100 Gb Ethernet adapters include HPE InfiniBand EDR 100Gb 1-port 841QSFP28 Adapter, HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter, HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter, and HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter. The 1-port 841QSFP28 card supports InfiniBand, and the rest of the other cards support both InfiniBand and Ethernet. Combined with EDR InfiniBand or 100 Gb Ethernet switches, they deliver low latency and up to 100Gbps bandwidth, ideal for performance-driven server and storage clustering applications in HPC and enterprise data centers.

Features

Low Latency, High-Bandwidth Adapters for EDR InfiniBand and 100 Gb Ethernet Connectivity

The HPE InfiniBand EDR and 100 Gb Ethernet adapters are supported on the HPE ProLiant XL and HPE ProLiant DL Gen9 and Gen10 servers. They deliver up to 100Gbps bandwidth and a sub-microsecond low latency for demanding high performance computing (HPC) workloads.

The adapter includes multiple offload engines that speed communications by delivering a low CPU overhead for increasing throughput.

HPE InfiniBand EDR/Ethernet 100Gb 1-port and 2-port 841QSFP28 Adapters support MPI tag matching and rendezvous offloads, along with adaptive routing on reliable transport.

Technical specifications**HPE EDR InfiniBand Adapters**

Technology	Mellanox ConnectX-4 and ConnectX-5 technologies
Protocol supported	IBTA Specification 1.3 compliant and PCIe Gen3 x16
Port configurations	1 or 2 QSFP28 ports
Connector speed	PCIe Gen3 x16
Switches supported	Mellanox EDR InfiniBand switches, Mellanox FDR InfiniBand switches, and 100Gb Ethernet switches
Form factor	PCIe Gen3 x16 Low Profile adapter, with tall and short brackets.
Product dimensions (metric)	14.2 x 6.9 cm (low profile)
Weight	0.36 kg
Warranty	Maximum: The remaining warranty of the HPE product in which it is installed (to a maximum 3-year, limited warranty). Minimum: 1-year limited warranty.



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

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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.

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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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