



# HPE ALLETRA 2140 4U ALL FLASH ARRAY TECH REFRESH EXPANSION SHELF (P31323-H21)

## Host Adapters



### 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 Alletra 2140 4U All Flash Array Tech Refresh Expansion Shelf

<b>Product Number</b>	P31323-H21
<b>Data rate</b>	Up to 200 Gb
<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 (metric)</b>	7.6 x 11.5 x 1.5 cm
<b>Weight</b>	0.44 kg
<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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**Defective Media Retention** is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

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