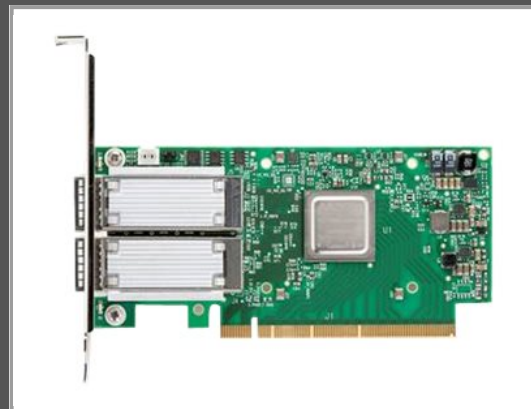


HPE 841QSFP28 - Network adapter

PCIe 3.0 x16 low profile - 100Gb Ethernet / Infiniband EDR QSFP28 x 2 - for HPE J2000; Apollo 4200 Gen10

Group	Server Accessories
Manufacturer	HPE
Manufacturer item no.	872726-B21
EAN/UPC	0190017143699



Description

The HPE InfiniBand 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 2-port 841QSFP28 adapters support MPI tag matching and rendezvous offloads, along with adaptive routing on reliable transport.

Main features

Product Description	HPE 841QSFP28 - network adapter - PCIe 3.0 x16 - 100Gb Ethernet / Infiniband EDR QSFP28 x 2
Device Type	Network adapter
Form Factor	Plug-in card - low profile
Interface (Bus) Type	PCI Express 3.0 x16
Ports	100Gb Ethernet / Infiniband EDR QSFP28 x 2
Data Link Protocol	100 Gigabit Ethernet, 100 Gigabit InfiniBand
Data Transfer Rate	100 Gbps
Capacity	Virtual functions: up to 256 Physical functions: up to 16
Processor	1 x Mellanox ConnectX-5
Compliant Standards	IEEE 802.1Q, IEEE 802.1p, IEEE 802.3ad (LACP), IEEE 802.3ba, IEEE 802.1AX, IEEE 802.1Qbb, IEEE 802.1Qaz, IEEE 802.1Qau, IBTA 1.3, IEEE 802.1Qbg, IEEE 1588v2, IEEE 802.3bj, IEEE 802.3bm
System Requirements	SuSE Linux Enterprise Server 11 SP3, SuSE Linux Enterprise Server 11 SP4, SuSE Linux Enterprise Server 12 SP3, Ubuntu 16.04, Red Hat Enterprise Linux 6.8, Red Hat Enterprise Linux 7.3, Red Hat Enterprise Linux 6.9, Ubuntu 16.10, Ubuntu 17.04, SuSE Linux Enterprise Server 12 SP2, Red Hat Enterprise Linux 7.4, CentOS 6.9, CentOS 7.3, CentOS 6.8, CentOS 7.4, Oracle Enterprise Linux 6.8, Oracle Enterprise Linux 6.9, Oracle Enterprise Linux 7.3, Oracle Enterprise Linux 7.4, Ubuntu 17.10
Designed For	HPE J2000; Apollo 4200, 4200 Gen10, 4200 Gen9; Nimble Storage dHCI Large Solution with HPE ProLiant DL380 Gen10; ProLiant DL325 Gen10, DL360 Gen10, DL380 Gen10, DL388 Gen10, DL580 Gen10, XL170r Gen10, XL170r Gen9, XL190r Gen10, XL190r Gen9, XL270d Gen9

Extended details

General

Device Type: Network adapter

Form Factor	Plug-in card - low profile
Interface (Bus) Type	PCI Express 3.0 x16
Networking	
Ports	100Gb Ethernet / Infiniband EDR QSFP28 x 2
Connectivity Technology	Wired
Data Link Protocol	100 Gigabit Ethernet, 100 Gigabit InfiniBand
Data Transfer Rate	100 Gbps
Capacity	Virtual functions: up to 256 Physical functions: up to 16
Features	RDMA over Converged Ethernet (RoCE), InfiniBand EDR Link support, Extended Reliable Connected transport (XRC), Dynamically Connected transport (DCT), NVMe over Fabric (NVMe) Offloads
Compliant Standards	IEEE 802.1Q, IEEE 802.1p, IEEE 802.3ad (LACP), IEEE 802.3ba, IEEE 802.1AX, IEEE 802.1Qbb, IEEE 802.1Qaz, IEEE 802.1Qau, IBTA 1.3, IEEE 802.1Qbg, IEEE 1588v2, IEEE 802.3bj, IEEE 802.3bm
Processor / Memory	
Processor	1 x Mellanox ConnectX-5
Expansion / Connectivity	
Interfaces	2 x 100Gb Ethernet / Infiniband EDR QSFP28 - QSFP28
Miscellaneous	
Compliant Standards	CISPR 22 Class A, EN55022 Class A, ICES-003 Class A, UL 60950-1, IEC 60950-1, EN 60950-1, WEEE, IEC 60068-2-32, RoHS, IEC 60068-2-29, IEC 60068-2-64, KC, FCC CFR47 Part 15 A, CAN/CSA-C22.2 No. 60950-1
Power	
Power Consumption Operational	16.12 Watt
Software / System Requirements	
OS Required	SuSE Linux Enterprise Server 11 SP3, SuSE Linux Enterprise Server 11 SP4, SuSE Linux Enterprise Server 12 SP3, Ubuntu 16.04, Red Hat Enterprise Linux 6.8, Red Hat Enterprise Linux 7.3, Red Hat Enterprise Linux 6.9, Ubuntu 16.10, Ubuntu 17.04, SuSE Linux Enterprise Server 12 SP2, Red Hat Enterprise Linux 7.4, CentOS 6.9, CentOS 7.3, CentOS 6.8, CentOS 7.4, Oracle Enterprise Linux 6.8, Oracle Enterprise Linux 6.9, Oracle Enterprise Linux 7.3, Oracle Enterprise Linux 7.4, Ubuntu 17.10
Manufacturer Warranty	
Service & Support	Limited warranty - parts - 1 year
Environmental Parameters	
Min Operating Temperature	0 °C
Max Operating Temperature	55 °C
Humidity Range Operating	5 - 95% (non-condensing)
Compatibility Information	

Designed For

HPE J2000 Dual IOM 2x100GbE NVMe-oF SFF JBOF Storage, J2000 Dual IOM 6x100GbE NVMe-oF SFF JBOF Storage | HPE Apollo 4200 Gen10, 4200 Gen10 192TB Qumulo Hybrid Node, 4200 Gen10 336TB Archive Node with 25Gb NIC for Qumulo, 4200 Gen10 384TB 25Gb Capacity Server for Cohesity DataPlatform, 4200 Gen10 384TB Capacity Server for Cohesity DataPlatform, 4200 Gen10 for HPE Ezmeral Container Platform, 4200 Gen9 for Google, 4200 Qumulo Archive Node, 4200 Qumulo Hybrid Node, 4200 Qumulo Node | HPE Nimble Storage dHCI Large Solution with HPE ProLiant DL380 Gen10 | HPE ProLiant DL325 Gen10 Base, DL325 Gen10 Solution, DL360 Gen10 All Flash Server for Datera, DL380 Gen10, DL380 Gen10 All Flash Server for Datera, DL380 Gen10 Base, DL380 Gen10 Entry, DL380 Gen10 Entry SMB, DL380 Gen10 for Cohesity DataPlatform, DL380 Gen10 for SAP HANA Compute Block, DL380 Gen10 High Performance, DL380 Gen10 Hybrid Server for Datera, DL380 Gen10 Network Choice, DL380 Gen10 Network Choice for CTERA, DL380 Gen10 NVMe All Flash Server for Datera, DL380 Gen10 Performance, DL380 Gen10 Server for CTERA, DL380 Gen10 SMB, DL380 Gen10 SMB Networking Choice, DL380 Gen10 Solution, DL388 Gen10 Network Choice, DL580 Gen10, DL580 Gen10 Base, DL580 Gen10 Entry, DL580 Gen10 Performance, XL170r Gen10, XL170r Gen10 24TB Server for Cohesity DataPlatform, XL170r Gen10 36TB Add-on Server for Cohesity DataPlatform, XL170r Gen9, XL190r Gen10, XL190r Gen10 for HPE Ezmeral Container Platform, XL190r Gen9, XL270d Gen9

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