

Data Sheet

FUJITSU InfiniBand HCA 40 Gb 1/2 port QDR enhanced

InfiniBand Host Channel Adapter 40 Gb 1/2 port QDR enhanced based on Mellanox MCX35xA-QCBT

InfiniBand Host Channel Adapter (HCA) enable data exchange between all the devices connected in an InfiniBand Network.

A networked IT infrastructure that functions well is of great significance when managing and controlling critical business processes in a company. The wide range of complex information transported across the network relies on fast and reliable data processing by the InfiniBand HCA.

InfiniBand technology provides a low-latency, high-bandwidth interconnect that can help increase scalability and performance in high-performance computing (HPC) cluster environments.

InfiniBand HCA 40 Gb 1/2 port QDR enhanced

The enhanced InfiniBand Host Channel Adapter (HCA) 40 Gb/s are based on the ConnectX-3 silicon and have a PCIe 3.0 interface. They provide the highest performing interconnect solution for Enterprise Data Centers, Web 2.0, Cloud Computing, High-Performance Computing, and embedded environments. Clustered data bases, parallelized applications, transactional services and high-performance embedded I/O applications will achieve significant performance improvements resulting in reduced completion time and lower cost per operation.

InfiniBand adapters deliver industry-leading bandwidth with ultra low-latency and efficient computing for performance-driven server and storage clustering applications. Network protocol processing and data movement overhead such as

RDMA and Send/Receive semantics are completed in the adapter without CPU intervention. Application acceleration and GPU communication acceleration brings further levels of performance improvement. InfiniBand adapters' advanced acceleration technology enables higher cluster efficiency and large scalability to tens of thousands of nodes.



Main Features	Benefits
<ul style="list-style-type: none"> ■ Up to 40 Gb/s InfiniBand per port ■ Single and Dual port options available 	<ul style="list-style-type: none"> ■ Guaranteed bandwidth and low latency services ■ World-class cluster, network performance

Technical details

Technical details

Controller Silicon	ConnectX-3
Controller type	InfiniBand HCA
Operating system pre-installed	Information to released operating systems can be found in the server datasheets. Details can be found in the released drivers list on the support portal.
Released drivers list link	http://support.ts.fujitsu.com/Download/Index.asp
Number of ports	1 2
Connector type	QSFP
Data transfer rate up to	40 Gbit/s
Bus interface	PCIe 3.0 x8
Bus transfer rate	8GT/s
Protocol Support InfB	Open MPI , OSU MVAPICH, MS MPI
General features	IBTA Specification 1.2.1 compliant

Order code	Height of bracket	Number of Connectors	Related product
MCX0JHC11	Full Height / Low Profile	1	PRIMEQUEST Server
MCX0JHC21	Full Height / Low Profile	2	PRIMEQUEST Server
S26361-F4475-E103	Full Height / Low Profile	1	PRIMERGY Server
S26361-F4475-E203	Full Height / Low Profile	2	PRIMERGY Server
S26361-F4475-L103	Full Height / Low Profile	1	PRIMERGY Server
S26361-F4475-L203	Full Height / Low Profile	2	PRIMERGY Server

Environment

Temperature (operating)	0 - 55 °C
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Compliance

Compliance notes	According to the corresponding system
Compliance link	https://sp.ts.fujitsu.com/sites/certificates

More information

Fujitsu products, solutions & services

In addition to Fujitsu with InfiniBand HCA 40 Gb 1/2 port QDR enhanced, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products

www.fujitsu.com/global/products/computing/

Software

www.fujitsu.com/software/

More information

Learn more about FUJITSU Server InfiniBand HCA 40 Gb 1/2 port QDR enhanced, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. www.fujitsu.com/primergy

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.

Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT. Please find further information at <http://www.fujitsu.com/global/about/environment>



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