

# Data Sheet

## FUJITSU InfiniBand HCA 56 Gb 1/2 port FDR

InfiniBand Host Channel Adapter 56 Gb 1/2 port FDR based on Mellanox MCX35xA-FCAT

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 56 Gb 1/2 port FDR

InfiniBand Host Channel Adapters (HCAs) 56 Gb/s provides 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"> <li>■ Up to 56 Gb/s InfiniBand per port</li> <li>■ Single and Dual port options available</li> </ul>	<ul style="list-style-type: none"> <li>■ Guaranteed bandwidth and low latency services</li> <li>■ World-class cluster, network performance</li> </ul>

# Technical details

## Technical details

<b>Controller Silicon</b>	ConnectX-3
<b>Controller type</b>	InfiniBand HCA
<b>Operating system pre-installed</b>	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.
<b>Released drivers list link</b>	<a href="http://support.ts.fujitsu.com/Download/Index.asp">http://support.ts.fujitsu.com/Download/Index.asp</a>
<b>Number of ports</b>	1 2
<b>Connector type</b>	QSFP
<b>Data transfer rate up to</b>	56 Gbit/s
<b>Bus interface</b>	PCIe 3.0 x8
<b>Bus transfer rate</b>	8GT/s
<b>Protocol Support InfB</b>	Open MPI , OSU MVAPICH, MS MPI
<b>General features</b>	IBTA Specification 1.2.1 compliant
<b>Notes</b>	for the US market max. one IB HCA 56Gb controller can be installed

Order code	Height of bracket	Number of Connectors	Related product
MC-0JHC31	Full Height / Low Profile	1	PRIMEQUEST Server
MC-0JHC41	Full Height / Low Profile	2	PRIMEQUEST Server
MCX0JHC31	Full Height / Low Profile	1	PRIMEQUEST Server
MCX0JHC41	Full Height / Low Profile	2	PRIMEQUEST Server
S26361-F3067-E200	Full Height / Low Profile	1	CELSIUS Workstation
S26361-F4533-E102	Full Height / Low Profile	1	PRIMERGY Server
S26361-F4533-E202	Full Height / Low Profile	2	PRIMERGY Server
S26361-F4533-L102	Full Height / Low Profile	1	PRIMERGY Server
S26361-F4533-L202	Full Height / Low Profile	2	PRIMERGY Server

## Environment

<b>Temperature (operating)</b>	0 - 55 °C
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## Compliance

<b>Compliance notes</b>	According to the corresponding system
<b>Compliance link</b>	<a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>

# More information

## Fujitsu products, solutions & services

In addition to Fujitsu with InfiniBand HCA 56 Gb 1/2 port FDR, 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/](http://www.fujitsu.com/global/products/computing/)

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

## More information

Learn more about FUJITSU Server InfiniBand HCA 56 Gb 1/2 port FDR, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
<http://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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