

# Data Sheet

## FUJITSU InfiniBand HCA 100 Gb 1/2 port EDR

InfiniBand Host Channel Adapter 100 Gb 1/2 port EDR based on Mellanox MCX45xA-E

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.

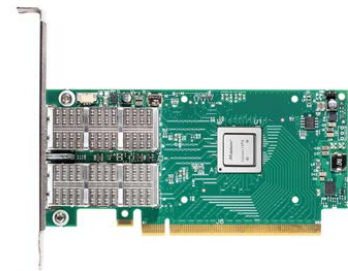
InfiniBand technology provides a low-latency, high-bandwidth interconnect that can help increase scalability and performance in high-performance computing (HPC) cluster environments.

### **InfiniBand HCA 100 Gb 1/2 port EDR**

The InfiniBand Host Channel Adapters (HCA) with Extended Data Rate (EDR) provide an industry leading high-speed, power efficient and easy manageable interconnect solution for High-Performance Computing (HPC), Enterprise Data Center (EDC), Web 2.0, Cloud Computing and embedded environments with 100 Gb/s connectivity on each port.

InfiniBand adapters deliver industry-leading bandwidth with ultra low-latency and efficient computing for performance-driven server and storage clustering applications. Based on the ConnectX-4 silicon the adapters ensure world-class cluster, network and storage performance in combination with efficient I/O consolidation for best Return on Investment (ROI).

The Low Profile PCIe 3.0 (x16 8.0GT/s) card offers an exchangeable Full Height (FH) and Low Profile (LP) bracket for every system size.



### Main Features

- Up to 100 Gb/s InfiniBand connection per port.
- Single and Dual port options available.
- Application and GPU communication acceleration.

### Benefits

- Guaranteed bandwidth and low latency services.
- World-class cluster, network performance.
- High performance improvements at lowest CPU utilization for best Return on Investment (ROI).

# Technical details

## Technical details

<b>Controller Silicon</b>	ConnectX-4
<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>	100 Gbit/s 100 MBit/s
<b>Bus interface</b>	PCIe 3.0 x16
<b>Bus transfer rate</b>	8GT/s
<b>Protocol Support Infb</b>	Open MPI , OSU MVAPICH, MS MPI
<b>General features</b>	IBTA Specification 1.3 compliant

<b>Order code</b>	<b>Height of bracket</b>	<b>Number of Connectors</b>	<b>Related product</b>
S26361-F5540-E102	Full Height / Low Profile	1	PRIMERGY Server
S26361-F5540-E202	Full Height / Low Profile	2	PRIMERGY Server
S26361-F5540-L102	Full Height / Low Profile	1	PRIMERGY Server
S26361-F5540-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 100 Gb 1/2 port EDR, 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 100 Gb 1/2 port EDR, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. [www.fujitsu.com/primergy](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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