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Data Sheet

FUJITSU Server PRIMERGY BX InfiniBand Switch 40 Gbit/s 18/18

Top performance for highly-demanding network connections



FUJITSU Server PRIMERGY systems provide the most powerful and flexible data center solutions for companies of all sizes, across all industries and for any type of workload. This includes expandable PRIMERGY tower servers for remote and branch offices, versatile rack-mount servers, compact and scalable blade systems, as well as density-optimized scale-out servers. They convince by business proven quality with a wide range of innovations, highest efficiency cutting operational cost and complexity, and provide more agility in daily operations in order to turn IT faster into a business advantage.

FUJITSU Server PRIMERGY BX blade systems are the perfect platform to build a converged infrastructure designed to reduce IT costs, time and efforts. PRIMERGY Blade Servers utilizes a modular architecture and contain in addition to the compute power, all required infrastructure and network components, storage capacity as well as management modules that helps companies to simplify their infrastructure, achieve significant cost reductions and increase flexibility.

PRIMERGY BX InfiniBand Switch 40 Gbit/s 18/18

The InfiniBand Switch 40 Gb 18/18 is a double-width Connection Blade that can be used in the PRIMERGY BX400 (Fabric 3) and BX900 (Fabrics 2, 3, 4). The Connection Blade offers maximum performance by providing a high bandwidth and at the same time low latency.

The hardware requires two horizontal slots at the rear of the blade chassis; up to three of the switches can be used in one housing. The switch with its total of 36 connections provides one of the highest densities in today's switch architectures. The Connection Blade supports Quad Data Rate (QDR x4) Infiniband and thus offers a bandwidth of up to 40Gb/s per port. The non-blocking architecture is used to support both adaptable and static routing so as to avoid or reduce any overloading.



Features & Benefits

Main Features	Benefits
Efficient performance <ul style="list-style-type: none">■ 18x uplink ports, 18x downlink ports with Quad Data Rate (QDR x4) and QSFP connectors	<ul style="list-style-type: none">■ Leading industrial switch platform as regards performance, power consumption and packing density
Best-in-class transfer rates <ul style="list-style-type: none">■ InfiniBand switch architecture with up to 40Gb/s per port	<ul style="list-style-type: none">■ High bandwidth, low latency for compute-intensive applications
Management for constant usage <ul style="list-style-type: none">■ Two internal Ethernet ports (one port for each MMB) for switch management tasks	<ul style="list-style-type: none">■ - Monitoring temperature and power consumption■ - Health check■ - Configuration settings■ - Hot-pluggable
Never overloaded <ul style="list-style-type: none">■ Non-blocking architecture	<ul style="list-style-type: none">■ Automatic and dynamic routing of data traffic to avoid overload

Technical details

PRIMERGY BX InfiniBand Switch 40 Gbit/s 18/18

Connection type	InfiniBand Connection Blade 36-port IB CB 18 ports internal, 18 ports external up to 40Gb per port QSFP connectors for external ports included
Supported system units	PRIMERGY BX400 S1, PRIMERGY BX900 S1, PRIMERGY BX900 S2
Max. number per BX unit	Up to 3
Supported Server Blades	PRIMERGY BX9xx Server Blades w. IB mezzanine card
Supported Server Blade I/O Solutions	PRIMERGY BX IB Mezz Card 40 Gbit/s 2 port

Interfaces

Down-link ports	18 x 40 Gbit/s IB
Up-link ports	18 x 40 Gb (QSFP)

Supported Interface Modules / Cables

Order code	Application	Type / mode	Connector / cable Length
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Technical specifications

Management	Embedded CPU for out-band management Management is done via Command Line Interface (CLI) Features: CPU board management FW management Inventory, Status and Statistics Debug tools Logging
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Dimensions / Weight

Dimensions (W x D x H)	387.5 x 266.5 x 28.22 mm
Weight	3.3 kg

Environment

Temperature note	see corresponding PRIMERGY BX System Unit
Operating environment	FTS 04230 – Guideline for Data Center (installation specification)
Operating environment link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe

Electrical values

Active power (max. configuration)	150 W
Heat emission	540.0 kJ/h (511.8 BTU/h)
Electrical value notes	18x QSFP module for uplink ports included

Product	
Germany	GS
Europe	CE Class A *
USA/Canada	ULc/us FCC Class A
Global	CB RoHS WEEE
Japan	VCCI:V3 Class A + JIS 61000-3-2
Taiwan	BSMI

Compliance notes

In combination with corresponding PRIMERGY BX system unit

There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request.

* Warning:

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Compliance link

<http://globalsp.ts.fujitsu.com/sites/certificates>

More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu PRIMERGY BX InfiniBand Switch 40 Gbit/s 18/18, 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 PRIMERGY BX InfiniBand Switch 40 Gbit/s 18/18, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. www.fujitsu.com/fts

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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