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# Data Sheet

## FUJITSU Server PRIMERGY BX Ethernet Pass Thru 1/10Gbit/s 18/18

Fast and universal connection to LAN and SAN



FUJITSU Server PRIMERGY will give you the servers you need to power any workload and changing business requirements. As business processes expand so does the need for applications. Each has its own resource footprint, so you need a way to optimize your computing to better serve your users. PRIMERGY systems will help you match your computing capabilities to your business priorities with our complete portfolio of expandable PRIMERGY tower servers for remote and branch offices, versatile rack-mount servers, compact and scalable blade systems, as well as hyper-converged scale-out servers. They convince by business proven quality with a wide range of innovations, highest efficiency cutting operational cost and complexity, provide more agility in daily operations, and integrate seamlessly to let help you concentrate on core business functions.

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 Ethernet Pass Thru 1/10Gbit/s 18/18

Each of the up to six auto-sensing 1/10Gbit/s Ethernet Pass-Thru Blades in a PRIMERGY BX Blade Server is an ideal complement for clients looking to enable up to 18 end-to-end non-blocking and lossless, direct 1 and 10 Gbit/s connections between server blades and the network. Its transparent behavior permits support of both Standard Ethernet and Converged Enhanced Ethernet (CEE) packets and thus, it allows the connection of a Blade Server chassis to FCoE-capable top-of-rack switches from e. g. Cisco (optical connectivity only) or Brocade. The module perfectly cooperates with 10 Gbit/s CNA (Converged Network Adapter) as well as with 1 or 10 Gbit/s pure Ethernet Mezzanine cards or on board controllers that are installed in the PRIMERGY BX server blades. This highly flexible usability, supported by low latency for wirespeed performance, paves the way for an easy and cost sensitive transition from today's separate Ethernet and FibreChannel topologies towards the converged operation of both via one cable and with one type of I/O controller. Free choice of connectors (copper or optical) for the provided SFP (1 Gbit/s) and SFP+ (10 Gbit/s) interfaces allow for optimal integration into different operational environments.



# Features & Benefits

Main Features	Benefits
<b>Safe operation</b> <ul style="list-style-type: none"><li>■ 10 Gbit/s Ethernet pass thru technology with 18 physically separated lines</li></ul>	<ul style="list-style-type: none"><li>■ Most secure transmission of data between server blades and LAN at high, native speed</li><li>■ Hassle-free connection to all Ethernet networks, avoiding any dependency on proprietary protocols, protecting investments in existing LAN environments</li><li>■ Maximum 6 pass-thru blades within one chassis offer scalability for up to 6 Ethernet connections per server blade</li><li>■ Flexible connectivity to external network components that provide different interconnect speeds</li><li>■ Price sensitive customers, who don't see the necessity of switched connectivity, will be highly satisfied by this connection blade</li></ul>
<b>Universal use</b> <ul style="list-style-type: none"><li>■ Protocol-free operation</li></ul>	
<b>Scalability provided</b> <ul style="list-style-type: none"><li>■ Installation in Fabrics 1 to 3 of BX400 (as soon as released) or BX900 system unit</li></ul>	
<b>Flexible connection</b> <ul style="list-style-type: none"><li>■ Auto-sensing for transmission speeds of 1Gbit/s and 10 Gbit/s</li></ul>	
<b>Optimal CAPEX</b> <ul style="list-style-type: none"><li>■ Pass-thru characteristics allow cost optimized production compared to switch technology, including SFP and SFP+ interface modules</li></ul>	

# Technical details

## PRIMERGY BX Ethernet Pass Thru 1/10Gbit/s 18/18

<b>Connection type</b>	LAN Connection Blade 1/10 Gbit/s Ethernet Pass Through Blade
<b>Supported system units</b>	PRIMERGY BX400 S1, PRIMERGY BX900 S1, PRIMERGY BX900 S2
<b>Max. number per BX unit</b>	4 in PRIMERGY BX400 S1, 6 in PRIMERGY BX900 S1/S2
<b>Supported Server Blades</b>	PRIMERGY BX9xx Server Blade w. 1 Gbit/s LAN on board PRIMERGY BX9xx Server Blade w. 10 Gbit/s LAN on board PRIMERGY BX9xx S3/S4 Server Blades w. 10 Gbit/s CNA on Board PRIMERGY BX25xx Server Blades w. 10Gbit/s CNA on Board
<b>Supported Mezzanine Cards</b>	PRIMERGY BX Eth Mezz Card 1 Gbit/s 4 port PRIMERGY BX Eth Mezz Card 10 Gbit/s 2 port PRIMERGY BX CNA Mezz Card 10 Gbit/s 2 port (MC-CNA102E) PRIMERGY BX CNA Mezz Card 10 Gbit/s 2 port (MC-CNA112E)

## Interfaces

<b>Down-link ports</b>	18 x 1/10 Gbit/s Eth
<b>Up-link ports</b>	18 x 1/10Gbit/s Eth Port types: 1 Gbit/s (SFP) or 10 Gbit/s (SFP+) full-duplex

## Supported Interface Modules / Cables

Order code	Application	Type / mode	Connector / cable Length
S26361-F3986-E1	Ethernet 1 Gbit/s	SFP / 1000BASE-T	RJ45 / up to 100m
S26361-F3986-E2	Ethernet 1 Gbit/s	SFP / MMF (SWL)	LC-style / up to 300m
S26361-F3986-E3	Ethernet 10 Gbit/s	SFP+ / MMF (SWL)	LC-style / up to 400m
S26361-F3989-E600	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 2m or 5m
S26361-F3989-L102	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 2m
S26361-F3989-L105	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 5m
S26361-F3989-L110	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 10m
S26361-F3873-E500	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 3m or 5m
S26361-F3873-L501	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 1m
S26361-F3873-L503	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 3m
S26361-F3873-L505	Ethernet 10 Gbit/s	SFP+ Twinax Cable / active	SFP+ / 5m
Interface Module notes	Only Fujitsu certified modules and cables are supported Order codes starting with "S26361-F3873" are Brocade branded cables, required for connections to Brocade switches Cisco twinax cables cannot be supported		

## Technical specifications

<b>DCB features</b>	the Ethernet Pass Through is fully transparent to Ethernet protocols
<b>Performance</b>	1Gbit/s or 10Gbit/s Ethernet full duplex, non blocking
<b>Interoperability</b>	Cisco Nexus product family Brocade 8000, Brocade VDX family all 1GbE switches fulfilling the standards for 1000BASE-SX and 1000BASE-T all 10GbE switches fulfilling the standards for 10GBASE-SR
<b>Management</b>	managed by the Management Blade of the chassis

## Dimensions / Weight

<b>Dimensions (W x D x H)</b>	192.6 x 267.9 x 27.9 mm
<b>Weight</b>	ca. 1.5 kg

## Environment

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

**Electrical values**

Active power (max. configuration)	42 W
Heat emission (max. configuration)	151.2 kJ/h (143.3 BTU/h)
Electrical value notes	Including 18 SFP+ modules

**Compliance**

Germany	GS
Europe	CE Class A *
Global	CB RoHS WEEE
Japan	VCCI:V3 Class A + JIS 61000-3-2
Australia/New Zealand	C-Tick
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.
Compliance link	<a href="http://globalsp.ts.fujitsu.com/sites/certificates">http://globalsp.ts.fujitsu.com/sites/certificates</a>

## More information

### Fujitsu OPTIMIZATION Services

In addition to Fujitsu PRIMERGY BX Ethernet Pass Thru 1/10Gbit/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

Built 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 offerings. This allows customers to select 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

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### More information

Learn more about Fujitsu PRIMERGY BX Ethernet Pass Thru 1/10Gbit/s 18/18, 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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