

Data Sheet

Fujitsu Dual Port 10 Gbit/s CNA Mezzanine Card V2

Two in One - Universal Converged Network Adapter

To connect your PRIMERGY Blade Server to outside networks and storage, Fujitsu offers a variety of options to support your familiar standards such as Ethernet, Fibre Channel, SAS and InfiniBand. They connect directly to the high performance midplane and guarantees lossless, highly efficient data transfer to and from the Connection Blades. In order to optimally meet your needs, Fujitsu provides a wide range of various Mezzanine Cards starting from 1 and 10 Gbit/s Ethernet, 8 and 16 Gbit/s Fibre Channel, 40 and 56 Gbit/s InfiniBand to 6 Gbit/s SAS with RAID functionality. Even Converged Network Adapters (CNAs) that provide multiple network connections and Fibre Channel over Ethernet (FCoE) as well as iSCSI are part of the portfolio.

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The MC-CNA112E is a dual-port 10 Gigabit Ethernet (10GbE) adapter that consolidates network and storage traffic with high-performance CPU offloads for Ethernet, Fibre Channel over Ethernet (FCoE) and Internet Small Computer System Interface (iSCSI) protocols.

As member of the Emulex OneConnect™ Universal Converged Network Adapter (UCNA) family, the mezzanine card (Emulex OCe11102) adapter supports a common infrastructure for networking and storage, reducing capital expense (CapEx) for adapters, switches and cables, and operational expense (OpEx) for power, cooling and IT administration.

Universal Multi-Channel (UMC) allows multiple PCI functions to be created on each adapter port. With the OCe11102-F, each port enables one FCoE or iSCSI function and three NIC functions. Ideal for virtualized servers, bandwidth can be allocated to support storage, virtual machine migration, management and I/O intensive applications.

The MC-CNA112E uses the identical controller (BladeEngine 3) that is provided as standard LAN on motherboard (LOM) for PRIMERGY BX920 S3 and BX924 S3 server blades.



Features & Benefits

Main Features	Benefits
<p>One platform for every network connection</p> <ul style="list-style-type: none"> ■ Optimized network and storage connectivity with high-performance FCoE offload and iSCSI offload. ■ Superior network support with TCIP/IP and TCP Chimney offloads. 	<ul style="list-style-type: none"> ■ Single 10GbE adapter can replace Host Bus Adapter (HBA) and multiple 1GbE Network Interface Cards (NICs). ■ Easy to deploy and manage with the Emulex OneCommand Manager application or with ServerView Virtual I/O Manager. ■ OneConnect Universal Multi-Channel (UMC) allows multiple PCI functions to be created on each adapter port. ■ Network convergence delivers significant cost savings by eliminating separate infrastructures for storage and networking and supporting bandwidth allocation to optimize throughput. ■ Protocol offload enables efficient use of computing resources, supports more VMs per CPU, and reduces the number of servers required to support data center demands. ■ Lower capital and operational expenses
<p>Universal Multi-Channel</p> <ul style="list-style-type: none"> ■ Each NIC function is presented to the operating system or hypervisor as a physical port with a separate MAC address and user-assigned bandwidth. This enables a single adapter port to provide specialized NIC functions for different uses, such as payload traffic, guest migration and console management. ■ OneConnect Ethernet adapters present four NIC functions per port. OneConnect iSCSI and FCoE adapters present one iSCSI or FCoE function plus three NIC functions per port. 	
<p>Network Convergence</p> <ul style="list-style-type: none"> ■ Transmission of storage and network traffic over a converged lossless network based on IEEE Data Center Bridging (DCB) standards. 	
<p>Greener data centers</p> <ul style="list-style-type: none"> ■ Industry-leading performance and scalability per watt, reducing requirements for power and cooling. 	
<p>Rapid return on investment (ROI)</p> <ul style="list-style-type: none"> ■ Less needed mezzanine cards, switch ports, cables with lower overall consumption for power and cooling 	

Technical details

Dual Port 10 Gbit/s CNA Mezzanine Card V2

Supported system units	PRIMERGY BX400 S1, PRIMERGY BX900 S1, PRIMERGY BX900 S2
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Supported Server Blades	PRIMERGY BX920 S3/S4, PRIMERGY BX924 S3/S4
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Dimensions

Formfactor	BX900 Mezzanine
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Controller dimension	140mm x 95mm
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Length	140 mm
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Width	95 mm
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Environment

Power consumption	12 W
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Temperature (operating)	0 - 55 °C
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Storage temperature	-40 - 70 °C
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Electrical values

Compliance

Product	The Mezz Card fulfills the same certifications as the Server Blade where it will be installed
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Compliance notes	According to the corresponding system
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Compliance link	https://sp.ts.fujitsu.com/sites/certificates
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More information

Fujitsu products, solutions & services

In addition to Fujitsu with Dual Port 10 Gbit/s CNA Mezzanine Card V2, 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 Dual Port 10 Gbit/s CNA Mezzanine Card V2, 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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