FUJITSU

Data Sheet
FUJITSU Server PRIMERGY CX400 M4 Multi-Node Server Enclosure

Workload-specific power in a modular form factor

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.

The FUJITSU Server PRIMERGY CX scale-out systems are the ideal basis for cloud, hyper-converged and high performance computing solutions. They provide data centers as well as branch offices with massive computing power for virtualized environments, complex calculations as well as consolidation and high-availabilty scenarios.

PRIMERGY CX400 M4
The FUJITSU Server PRIMERGY CX400 M4 helps to provide a scalable IT infrastructure enabling flexible and fast response to rapidly changing IT demands. The CX400 M4 is a modular enclosure for the Fujitsu scale-out ecosystem that combines the density and efficiency of blade-like servers with the simplicity and cost benefits of rack-based systems. The 2U enclosure allows gradual adding or removing up to 4 compact nodes as required by the business needs. The enclosure allows nodes and components to share power, cooling and management. It houses hot-plug and redundant power supply units, hot-plug and redundant fan modules as well as provides space for up to 24

storage drives.
The PRIMERGY CX server nodes provide the power for virtualized desktop infrastructures (VDI), infrastructure virtualization, High Performance and Technical Computing, Web Services, Cloud Computing but also serve as a foundation for hyper-converged infrastructures.
The Fujitsu ServerView Suite simplifies and automates server lifecycle management, making IT operations more efficient. The new ServerView Infrastructure Manager (ISM) helps to manage a variety of hardware resources in data centers and converged infrastructures. It can be integrated into other Cloud Management Systems covering the administration of server, storage, network and facility elements.

Features & Benefits

Main Features	Benefits
Compact and modular foundation ■ The PRIMERGY CX400 M4 features up to 4 half-wide dual socket server nodes plus up to 24 storage drives in a single 2U enclosure. ■ The enclosure allows nodes and components to share power, cooling and management. ■ Hot-plug and redundant power supply units, hot-plug and redundant fan modules for maximum reliability.	■ 50% less rack space in comparison with standard rack servers. ■ Comprehensive ecosystem making it ideal for VDI, virtualization, High Performance and Technical Computing, Web Services and Cloud Computing. ■ Gradually add or remove server nodes as required by the business needs.
Versatile performance for any computing need ■ Various server nodes featuring latest generation Intel® Xeon® processors to best match particular workloads. ■ Intel® Xeon® Processor Scalable Family with up to 28 cores relying on Intel® UltraPath Interconnect for an increased data rate between the CPUs. ■ Server nodes available with high-end computational and graphics performance based on advanced GPU accelerators. ■ Latest DDR4 memory technology with 2,666 MHz. ■ Up to 24x 2.5" hot-plug storage drives.	■ Scalable IT infrastructure enabling flexible and fast response to rapidly changing IT demands. ■ Ready for the future and data growth scenarios. ■ DDR4 memories with higher bandwidth and lower consumption are the enabler; optimized for virtualization and clouds, data centers and high performance computing. ■ Flexible expandability and diverse options.
Traditional air cooling or optional liquid cooling ■ The PRIMERGY CX400 M4 can be used with standard air cooling or optionally with liquid cooling technology. ■ The liquid cooling solution removes heat from CPUs, GPUs, and memory modules within servers using water as hot as 40 °C (105°F), eliminating the need for chilling to cool these components.	■ Cool-Central® Liquid Cooling Technology is the ideal solution to overcome cooling as well as power challenges, and to significantly reduce investment and operating costs in the data center. ■ "Free cooling" solution that captures between 60% and 80% of server heat, reducing data center cooling cost by over 50% and allowing 2.5x-5x increases in data center server density.
Simplify Complexity ■ Fujitsu ServerView Suite including tools for installation and deployment, permanent status monitoring and control. ■ BIOS, firmware and selected software are updated free of charge. ■ iRMC S5 comes with new interactive web UI and conforms to Redfish providing unified API support for heterogeneous environment.	■ Enable faster IT service by automating and simplifying infrastructure operations across compute, storage and networking with ServerView Infrastructure Software Manager. ■ The comprehensive tools of the Fujitsu ServerView Suite ease the administrator's life. ■ Providing increased security and server administrator productivity, iRMC S5 simplifies server management.

Technical details

PRIMERGY CX400 M4	
Interfaces	

General system information

Fan configuration	8 hot-plug and redundant fans modules with 7+1 redundancy
Fan notes	System operation also in degraded mode

Operating panel

Operating buttons	On/off switch ID button
Status LEDs	Identification (blue) Power (green) CSS Indicator Global Error Indicator

Dimensions / Weight

Rack (W x D x H)	480.8 mm (w/ bezel) / 444.0mm (body) x 857 x 87.8 mm
Mounting Depth Rack	820.0 mm
Height Unit Rack	2 U
19" rackmount	Yes
Weight	approx. 21-43 kg
Weight notes	Fully assembled Actual weight may vary depending on configuration
Rack integration kit	Included in Rack System

Environment

Operating ambient temperature	5 - 45 ℃ (41 - 113 °F)
Operating temperature note	Cool-safe® Advanced Thermal Design (above 35 ℃ or below 10 ℃) depending on configuration. For detailed information see relevant system configurator. DIN IEC 721-3-3 class 3K2
Operating relative humidity	10 - 85 % (non condensing)
Maximum altitude	3000 m
Operating environment	FTS 04230 – Guideline for Data Center (installation specification)
Operating environment link	http://docs.ts.fujitsu.com/dl.aspx?id=589915e9-1bf8-40f7-8ba4-7cac9371f2f0
Noise emission	According to ISO9296
Sound power (LWAd; 1B = 10dB)	7.6B (idle) / 7.9B (operating)

Electrical values

Max. input of single power supply	1,600W/2,400 W (94% efficiency)
Power supply configuration note	2x PSU in 1+1 redundancy configuration. In case of one PSU fail, system might throttle to keep system running, depends on HW configuration.
Power supply efficiency	94 % (80 PLUS platinum)
Rated voltage range	100 V - 240 V
Rated frequency range	47 Hz - 63 Hz
Rated current max.	28.4 A with two PSU (14.2A per PSU)
Electrical value notes	Active power max. value depends on system configuration. For details see System Architect.

Compliance

Global	CB RoHS (Substance limitations in accordance with global RoHS regulations) - planned WEEE (Waste electrical and electronical equipment) - planned
Germany	GS

Compliance	
Europe	CE Class A *
USA/Canada	ULc/us
Japan	VCCI:V3 Class A + JIS 61000-3-2
Taiwan	CNS 13438 class A
Compliance link	https://sp.ts.fujitsu.com/sites/certificates
Compliance notes	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.

Components

Warranty	
Warranty period	3 years
Warranty type	Onsite warranty
Product Related Services - the perfect extension	
Recommended Service	X - 24x7, Onsite Response Time: 4h - For locations outside of EMEIA please contact your local Fujitsu partner.
Service Lifecycle	5 years
Service Weblink	http://www.fujitsu.com/fts/services/support

More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu PRIMERGY CX400 M4, 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 CX400 M4, 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

Copyrights

All rights reserved, including intellectual property rights. Changes to technical data reserved. Delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.
For further information see http://www.fujitsu.com/fts/resources/navigation/terms-of-use.html
Copyright 2017 FUJITSU LIMITED

Disclaimer

Technical data is subject to modification and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.