

Data Sheet

FUJITSU Server PRIMERGY CX400 M4 Multi-node Server

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 as well as hyper-converged multi-node 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 PRIMERGY CX multi-node 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 while at the same time delivering best economics for server density, energy consumption, heat optimization and lower overall operating costs.

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 multi-node 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 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
<p>Compact and modular foundation</p> <ul style="list-style-type: none"> ■ The PRIMERGY CX400 M4 chassis is Fujitsu's densest computing solution. It can be equipped with up to 4 dual-socket server nodes plus up to 24 storage drives in a single 2U enclosure. The CX400 M4 allows nodes and components to share power, cooling and management. Hot-plug and redundant power supply units and fan modules ensure maximum reliability. <p>Superior performance in a dense form factor</p> <ul style="list-style-type: none"> ■ The PRIMERGY CX400 M4 is among the most versatile general-purpose enterprise infrastructure and application servers in the industry. The chassis can be equipped with different kinds of server nodes featuring latest generation Intel® Xeon® processors and Intel® Optane™ DC persistent memory technology for various usage scenarios. Apart from that, selected servers can also be equipped with high-end NVIDIA Tesla accelerator cards. <p>Traditional air cooling or optional liquid cooling</p> <ul style="list-style-type: none"> ■ 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. <p>Revolutionize data center management</p> <ul style="list-style-type: none"> ■ Fujitsu ServerView Suite is a free-of-charge management software including tools for installation and deployment, permanent status monitoring and control as well as BIOS, firmware and selected software updates. In addition, FUJITSU Software Infrastructure Manager (ISM) provides converged management across multiple data centers. The new ISM Essential license, available free-of-charge provides essential server management and converged monitoring functions. 	<ul style="list-style-type: none"> ■ With PRIMERGY CX400 M4 multi-node server, you get much more server density compared to the standard rack servers. This makes it ideal for service providers, the automotive industry modeling new designs, state and local authorities to provide citizen services or a retailer analyzing consumer trends. In case the requirements change, the CX400 M4 makes it possible to gradually add or remove server nodes as required by the business needs. ■ The PRIMERGY CX400 M4 is a scalable IT infrastructure enabling flexible and fast response to rapidly changing IT demands. It provides an ideal platform for scale-out workloads such as virtualization, all kinds of enterprise applications, high performance computing, deep learning or data analytics. ■ 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. ■ Fujitsu offers comprehensive infrastructure management and server management solutions which is key to efficient data center operations. They provides all the functions for flexible and automated 24x7 IT operations and improves end-user productivity via intelligent and innovative system management solutions. ISM helps improve data center efficiency and overall IT productivity with converged infrastructure management, paving the path to software-defined data center.

Technical details

PRIMERGY CX400 M4

Enclosure

System unit type	2U chassis for 19-inch rack
Front bays	Up to 24x 2.5-inch storage drives (usability depending on the server node)
Rear bays	4x bays for half width server nodes 2x hot-plug and redundant (optional) power supply units
Fan configuration	8x hot-plug and redundant fans modules with 7+1 redundancy
Fan notes	System operation also in degraded mode
Power supply configuration	2x hot-plug and redundant (optional) power supply units

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

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.

Environment

Operating ambient temperature	5 - 35 °C
Operating temperature note	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)

Compliance

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

Server Nodes

Product Model name	PRIMERGY CX2550 M4	PRIMERGY CX2550 M5	PRIMERGY CX2560 M4	PRIMERGY CX2560 M5	PRIMERGY CX2570 M4	PRIMERGY CX2570 M5
Product Type	Dual Socket 1U Server Node	Dual Socket 1U Server Node	Dual Socket 1U Server Node	Dual Socket 1U Server Node	Dual Socket 2U Server Node	Dual Socket 2U Server Node
Processor quantity support	1 - 2	1 - 2	1 - 2	1 - 2	1 - 2	1 - 2
Number of nodes	4	4	4	4	2	2
Memory slots total	16	16	16	16	16	16
Supported capacity RAM (max.)	2,048 GB	3.5 TB	2,048 GB	3.5 TB	2,048 GB	2,048 GB
Number of Storage Drives (max.)	up to 2x 2.5-inch (in the PRIMERGY CX400 M4 chassis)	up to 2x 2.5-inch (in the PRIMERGY CX400 M4 chassis)	up to 6x 2.5-inch (in the PRIMERGY CX400 M4 chassis)	up to 6x 2.5-inch (in the PRIMERGY CX400 M4 chassis)	up to 6x 2.5-inch (in the PRIMERGY CX400 M4 chassis)	up to 6x 2.5-inch (in the PRIMERGY CX400 M4 chassis)

Warranty

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

More information

Fujitsu products, solutions & services

In addition to FUJITSU Server 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 Server PRIMERGY CX400 M4, 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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