

Data Sheet

Fujitsu Server PRIMERGY CX400 M4 Multi-Node Server

Workload-specific power in a modular form factor

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 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, allowing nodes and components to share power, cooling and management. Equippable with up to 4 dual-socket server nodes plus up to 24 storage drives in a single 2U enclosure.	<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. In case the requirements change, it's possible to gradually add or remove server nodes as required by the business needs.■ The PRIMERGY CX400 M4 provides an ideal platform for scale-out workloads such as virtualization, all kinds of enterprise applications, high performance computing, deep learning or data analytics.■ Converged data center management that provides organizations centralized control over the entire infrastructure that includes servers, storage, networking, cloud management software as well as power and cooling using a single user interface.■ PRIMERGY servers come with a wide variety of such robust security features and combine these capabilities with the best quality and efficiency, and more agility in daily operations helps to turn IT into a business advantage faster.
<p>SUPERIOR PERFORMANCE IN A DENSE FORM FACTOR</p> <ul style="list-style-type: none">■ The PRIMERGY CX400 M4 can be equipped with different kinds of server nodes powered by Intel® Xeon® Scalable processors, new 2nd generation processors of the Intel® Xeon® Scalable Family (CLX-R) and Intel® Optane™ DC persistent memory technology.	
<p>INFRASTRUCTURE MANAGEMENT</p> <ul style="list-style-type: none">■ ISM Advanced is the fully featured licensed version of ISM that provides infrastructure management capabilities across data center. ISM Essential provides a quick start to infrastructure management with essential monitoring and update functions.	
<p>PROTECT YOUR COMPANY WITH SECURE SERVERS</p> <ul style="list-style-type: none">■ PRIMERGY servers are equipped with beneficial features to protect against, detect and recover from security breaches (UEFI Secure Boot, TPM 2.0, signed firmware updates, agent-free device management, secure authorization and authentication, alerting and logging, secure Out of Band Management with iRMC S5, ...).	

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 temperature note	PRIMERGY servers are designed for the usage with operating temperatures of up to 35°C. There could be configurations that are not able to work within this normal operation class. Please use the Fujitsu WebArchitect (www.fujitsu.com/configurator/public) to get detailed information on the corresponding configurations.
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)
Noise notes	Noise emissions depends on operation modes, system configuration and ambient temperature.

Compliance

Product	PRIMERGY CX400 M4
Model	CX400C

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 - 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	http://ts.fujitsu.com/Supportservice

More information

Fujitsu platform solutions

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.

Dynamic Infrastructures
With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

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/emeia/products/computing/servers/primergy/scale-out/cx400m4/>

Fujitsu green policy innovation

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