Data Sheet
Fujitsu PRIMERGY CX400 M7 Multi-Node Server

Workload-specific power in a modular form factor

Fujitsu offers a fantastic blend of systems, solutions and expertise to guarantee maximum productivity, efficiency and flexibility, delivering confidence and reliability. Fujitsu Server PRIMERGY systems deliver workload-optimized x86 industry standard servers for any workload and business demand. Since there is no single server solution to meet all these needs, Fujitsu offers a broad server portfolio consisting of expandable tower servers for remote and branch offices, versatile rack-mount servers and density-optimized multi-node servers. Whatever the size of your business – large enterprise with multiple sites, or a small or medium-sized company with limited space and budget – with the right choice of server, your IT can become the business enabler you have always wanted it to be.

PRIMERGY CX400 M7
The Fujitsu PRIMERGY Server CX400 M7 offers a great mix of flexibility, high capacity, and top-notch performance for rapidly changing IT requirements. The modular 2U chassis provides space for up to four compact nodes that can be added or removed depending on business needs. The four server nodes are equipped with the 4th Generation Intel® Xeon® Scalable processors and offer the optimal performance for virtualization and cloud scenarios. The enclosure allows nodes and components to share power, cooling, and management. It houses hot-plug and redundant power supply units and supports hot-plug and redundant fan modules. There is room for up to 24x2.5" SAS/SATA/NVME storage devices and provides the flexibility to scale as the business grows. The PRIMERGY CX server nodes provide the power for infrastructure virtualization, high performance and technical computing, web services, cloud computing while also serving as a foundation for hyper-converged infrastructures. With workloads and administrative tasks becoming increasingly complex, the Infrastructure

Manager (ISM) and the Remote Management Controller (iRMC S6) help to manage a variety of hardware resources in data centers and converged infrastructures so you can focus on your business needs and objectives. In addition to some new software and hardware features, the server also offers an optionally lockable front bezel to avoid unauthorized physical access directly in the data center.

Features & Benefits

Main Features	Benefits
Compact and modular foundation ■ The PRIMERGY CX400 M7 chassis is Fujitsu's densest computing solution. It can be equipped with up to 4 dual-socket server nodes in a single 2U enclosure. The CX400 M7 allows nodes and components to share power, cooling and management. Hot-plug and redundant power supply units and fan modules ensure maximum reliability.	■ With the PRIMERGY CX400 M7 multi-node server, you get much more server density compared to the standard rack servers. This makes it ideal for service providers - e.g. for the automotive industry to model new designs, for state and local authorities to provide citizen services or for a retailer to analyze consumer trends. In case the requirements change, the CX400 M7 makes it possible to gradually add or remove server nodes as required by your business needs.
Superior performance in a dense form factor ■ The PRIMERGY CX400 M7 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 4th Generation Intel® Xeon® Scalable processors for various usage scenarios.	■ The PRIMERGY CX400 M7 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. With the new generation of Intel® Xeon® Processors you get the best out of your PRIMERGY CX400 M7 server.
Easy scalability for rapidly changing workloads ■ With up to 24x storage devices meet future demands and have the ability to scale easily the server system for your business needs. Choose between SATA, SAS or the faster PCIeSSD to get the best out of the CX400 M7 server. The system supports DynamicLoM via OPC V3 as well as the new 5th generation of PCIe expansion slots.	■ Be ready for future changes and combine high-performance PCIeSSD with normal SATA/SAS drive or choose only the PCIeSSD for your IT environment. With the flexibility of the CX400 M7, you can easily scale your server environment to meet your business needs and requirements. No matter what, you will not only reduce latency but also improve the data transfer speed of your IT infrastructure.
Revolutionize data center management ■ Fujitsu provides an overarching management for the new era of IT infrastructure with Fujitsu Software Infrastructure Manager (ISM) Advanced as well as the free-of-charge Essential version. ISM simplifies and automates IT operations and provides single, converged management for both the physical and the virtual environment, encompassing computing, storage, and network devices. The ISM Essential license is available free-of-charge and provides converged infrastructure monitoring and essential server management.	■ Fujitsu offers comprehensive infrastructure management and server management solutions, which is key to efficient data center operations. They provide all the functions for flexible and automated 24x7 IT operations and improve end-user productivity via intelligent and innovative system management solutions. Fujitsu Software Infrastructure Manager enables organizations to drive towards the path of achieving software-defined infrastructure, by automating and simplifying infrastructure operations across compute, storage, and networking.

Technical details

PRIMERGY CX400 M7		
Base unit	Chassis for CX2550 M7/CX2560 M7	Chassis for CX2560 M7 All NVMe
Housing types	24x (4 x 6) 2.5-inch	24x (4 x 6) 2.5-inch
Storage drive architecture	2.5-inch SAS/SATA/PCIe	2.5-inch
Power supply	Hot-plug	Hot-plug
Notes	b	b

Mainboard type		
Processor quantity and type	up to 8 x Intel® Xeon® Silver 43xx processor / Intel® Xeon® Gold 53xx processor	
Memory slots	96	
Memory capacity (min. - max.)	12 TB	

Interfaces		
Storage drive bays	24x 2.5" drive or HDD less configuration x 2.5-inch hot-plug	

General system information	
Fan configuration	10x hot-plug and redundant fans modules with 9+1 redundancy
Fan notes	System operation also in degraded mode
Number of fans	10
Fan configuration	9+1 Redundancy and Hotplug
Fan notes	Hotplug operation requires cable arm option

Operating panel		
Operating buttons	On/off switch ID button	
Status LEDs	Power (DC-On: green / AC-On: white) Identification (blue) CSS Indicator Global Error Indicator	
Operating buttons	ID button On/off switch	ID button On/off switch
Status LEDs	CSS Indicator Global Error Indicator Power / Identifcation / Status (green / amber) Identification (blue)	CSS Indicator Global Error Indicator Power / Identifcation / Status (green / amber) Identification (blue)

Operating system release link	
Operating system notes	Use of certified or supported operating systems and virtualization software is subject to proactive acceptance of the respective License Agreements/ EULAs/ Subscription and support terms of the Software manufacturer as applicable for the relevant Software whether preinstalled or optional. The software may only be available bundled with a software support subscription which – depending on the Software - may be subject to separate remuneration.

DC Infrastructure Management	Infrastructure Manager (ISM)
	    Essential Edition
	    Advanced Edition

Server Management	Infrastructure Manager (ISM)
	    Essential Edition
	    Advanced Edition
	ServerView Suite

Management notes	For further information regarding ISM and ServerView Suite see dedicated data sheets.
Manageability link	http://docs.ts.fujitsu.com/dl.aspx?id=9e92297a-16fb-4c69-8559-e38e7b42fee6

Dimensions / Weight	
Rack (W x D x H)	480 mm (w/ bezel) / 443.5 mm (body) x 860 x 86.5 mm
Mounting Depth Rack	812.8 mm

Dimensions / Weight

Height Unit Rack	2 U	
19" rackmount	Yes	
Weight	approx. 28-43 kg	
Weight notes	Weight may vary depending on actual configuration	
Rack integration kit	Included in System	
Floor-stand (W x D x H)		
Rack (W x D x H)	480.8 x 443.5 x 86.5 mm	480.8 x 443.5 x 86.5 mm
Mounting Depth Rack	860.0 mm	860.0 mm
Height Unit Rack	2 U	2 U
Weight	approx. 28-43 kg	approx. 28-43 kg
Notes	b	b

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=e4813edf-4a27-461a-8184-983092c12dbe	
Noise emission	According to ISO9296	
Sound power (LWAd; 1B = 10dB)	7.6B (idle) / 7.9B (operating)	
Sound power (LWAd; 1B = 10dB)	7.4B (idle) / 8.1B (operating)	7.6B (idle) / 7.9B (operating)

Electrical values

Max. input of single power supply	2,600 W (96% 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	96 % (80 PLUS titanium)
Rated voltage range	100 V - 240 V
Rated frequency range	47 Hz - 63 Hz
Rated current max.	30 A with two PSU (15A per PSU)
Electrical value notes	Active power max. value depends on system configuration. For details see System Architect.

Compliance

Product	PRIMERGY CX400 M7
Model	CX400D
Global	CB RoHS (Substance limitations in accordance with global RoHS regulations) WEEE (Waste electrical and electronical equipment)
Europe	CE
USA/Canada	cTUVus ICES-003 Class A FCC Class A
Japan	VCCI Class A
South Korea	KN32 KN35
Australia/New Zealand	AS/NZS CISPR32 Class A
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

Rack infrastructure	Cable Management 2U for PRIMECENTER- and 3rd-party racks

Notes	
Compatibility	If and to the extent a list of components or certain compatibilities are specified in the product data sheet, these component lists and compatibility specifications are exhaustive. Using deviating or other system components and applications together with the product may but does not necessarily have to lead to compatibility problems. A final statement and/or commitment on the compatibility of such deviating or other system components and applications can only be provided after a corresponding verification through a dedicated compatibility testing.
Continuity management	The product may in connection with and depending on the specific configuration include elements to support time- and performance-critical applications, however high availability (e.g., 99.9999%) and failsafe performance is not a standalone product feature. If and to the extent the product is to be used in such business-critical environments, it is within the sole responsibility of the user to set up the specific additional technical features (e.g., Storage Cluster), redundancies, and operational conditions as required to ensure such high availability or failsafe performance.
Security	The properties of the product provide a baseline for product security and therefore end-customer IT security. However, these properties are not sufficient on their own to protect the product from all existing threats, such as intrusion attempts, data exfiltration and other forms of cyberattacks. To customize security settings, please use the configuration options as available for the respective product. During operation, the IT security of this product is within the responsibility of the respective administrator/end-user of the product. Please note, that Fujitsu as a manufacturer does not make any policy prescriptions or advocacy statements regarding IT security best practices and/or general product operation.

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	https://www.fujitsu.com/emeia/support/

More information

More information

Learn more about Fujitsu PRIMERGY CX400 M7, 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

Disclaimer

Please note that the data sheet reflects the technical specification with the maximum selection of components for the named system and not the detailed scope of delivery. The scope of delivery is defined by the selection of components at the time of ordering. The product was developed for normal business use.
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