FUJITSU

Data Sheet
FUJITSU Server PRIMERGY CX400 M1 Multi-Node Server Enclosure

Scale-Out Smart for HPC, Cloud and Hyper-Converged Computing

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 M1
The Fujitsu Server PRIMERGY CX400 M1 helps to meet the immense challenges now facing companies as well as research and development institutions. The system with only 2 height units contains up to four server nodes, 8 Intel® Xeon® processors and 64 DDR4 memory DIMMs, thus providing the very highest performance and energy efficiency levels. The scale-out system can be perfectly adapted for a wide range of applications thanks to its high degree of modularity. When requirements change, additional server nodes, co-processor cards or hard disks can just be

added. In comparison to conventional rack servers the PRIMERGY CX400 M1 wins through thanks to its double server density and low hardware and operating costs. The system is thus an ideal replicable component in order to implement large scale-out solutions.

Green IT

PRIMERGY **20** Years

Features & Benefits

Main Features	Benefits
Condensed 4-in-2U server density ■ The PRIMERGY CX400 M1 features up to 4 half-wide dual socket server nodes plus up to 24 storage drives in a single 2U enclosure.	■ 50% less rack space in comparison with standard rack servers enables to scale-out more smartly. Higher server density results in more performance per rack unit (4 servers, 8 processors, 24 drives and 64 DIMMs in 2U chassis).
Server nodes for every scenario ■ Different dual socket server nodes featuring latest Intel® Xeon® processor E5-2600 v3 product family ■ Standard server node, 16 DIMMs (1U) ■ Enhanced HPC node with up to two GPGPU or co-processor cards, 16 DIMMs (2U)	■ Different types of server nodes allow for best match to particular scale-out solution stacks. ■ Latest Intel® Xeon® processor E5-2600 v3 product family CPUs for top performance and lower energy budgets.
Traditional air cooling or optional liquid cooling ■ The PRIMERGY CX400 M1 complies to conventional datacenter front-to-back airflow and cooling and standard 19" industry rack infrastructure and applications. ■ The optional direct-to-chip hot water (40 °C / 105 °F) based Cool-Central® Liquid Cooling captures between 60-80% of the servers heat.	■ Easy rack-wide team play with already existing datacenter infrastructure lowers overall investment. ■ Helps to reduce data center cooling costs by over 50% and allows for 2.5-5x higher data center density.
Variable local storage ■ Up to 24x 2.5" hot-plug storage drives (HDD, SSD, PCIe) for 4 server nodes.	■ Flexibility of drive choice, adaptable to any demand ■ Up to 6 drives can be assigned to a single server node to suit even high storage demands
Easy serviceability ■ Hot-plug for server nodes, power supplies and disk drives enables enhanced availability and easy serviceability.	■ Each single server can be serviced without affecting the other nodes in the chassis.

Technical details

PRIMERGY CX400 M1			
Base unit	Chassis for CX2550 M1	Chassis for CX2570 M1	HPC optimized chassis for CX2550 M1
Housing types	24x (4 x 6) 2.5-inch	12x (2 x 6) 2.5-inch	8x (4 x 2) 2.5-inch
Storage drive architecture	2.5-inch SAS/SATA	2.5-inch SAS/SATA	2.5-inch SATA

Enclosure	
System unit type	2 U chassis for 19-inch rack
Front bays	Storage drives: 6x 2.5-inch, 12x 2.5-inch or 24x 2.5-inch (HDD, SSD)
Rear bays	4 bays for half wide server trays CX25y0 M1 2 x for PSU
Fan configuration	4 non hot plug fans
Fan notes	System operation also in degraded mode
Power supply configuration	2x hot-plug power supply modules

Operating panel	
Operating buttons	On/off switch ID button
Status LEDs	Identification (blue) Power (green)

Dimensions / Weight	
Rack (W x D x H)	446 x 860.2 x 87.8 mm
Height Unit Rack	2 U
19" rackmount	Yes
Weight	up to 40 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	1600 W (94% efficiency)
Power supply configuration note	2x PSU in 1+1 redundancy configuration. System performance adjusted, when only one PSU is in operation, which depend on the 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.	24.2 A with two PSU (12.1A per PSU)
Electrical value notes	Active power max. value depends on system configuration. For details see System Architect.

Environment	
Operating ambient temperature	5 - 40 ℃ (41 - 104 ℉)
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)
Noise emission	According to ISO9296
Sound power (LWAd; 1B = 10dB)	6.5B (idle) / 7.4B (operating)

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

Compliance

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	http://globalsp.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.

Cloud Server Nodes

Product Model name	PRIMERGY CX2550 M1	PRIMERGY CX2570 M1
Product Type	Dual Socket 1U Server Node	Dual Socket 2U Server Node
Processor quantity support	2	2
Number of nodes	4	2
Memory slots total	16	16
Supported capacity RAM (max.)	512 GB	512 GB
Number of Storage Drives (max.)	6x 2.5-inch	6x 2.5-inch

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	http://www.fujitsu.com/fts/services/support

More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu PRIMERGY CX400 M1, 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 M1, 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
©2015 Fujitsu Technology Solutions GmbH

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.

http://www.fujitsu.com/fts/products/computing/servers/primergy/scale-out/cx400m1/