Data Sheet
Fujitsu Server PRIMERGY CX400 M1 Compact and Easy

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

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

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 v4 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 CPU technology 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 CoolCentral® 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/M2	Chassis for CX2570 M1/M2	HPC optimized chassis for CX2550 M1/M2
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/M2 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	2400 W (94% efficiency)		
Power supply configuration note	2x PSU in 1+1 redundancy 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 - 45 °C (41 - 113 °F)		
Operating temperature note	Cool-safe® Advanced Thermal Design (above 35 °C or below 10 °C) 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
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 M1	PRIMERGY CX2550 M2	PRIMERGY CX2570 M1	PRIMERGY CX2570 M2
Product Type	Dual Socket 1U Server Node	Dual Socket 1U Server Node	Dual Socket 2U Server Node	Dual Socket 2U Server Node
Processor quantity support	2	2	2	2
Number of nodes	4	4	2	2
Memory slots total	16	16	16	16
Supported capacity RAM (max.)	1,024 GB	1,024 GB	1,024 GB	1,024 GB
Number of Storage Drives (max.)	6x 2.5-inch	up to 6x 2.5-inch (in the PRIMERGY CX400 M1 chassis)	6x 2.5-inch	up to 6x 2.5-inch (in the PRIMERGY CX400 M1 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 EMEIA please contact your local Fujitsu partner.
Service Lifecycle	5 years
Spare Parts availability	
Service Weblink	http://ts.fujitsu.com/Supportservice

More information

Fujitsu platform solutions

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.

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
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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/fts/products/computing/servers/primergy/scale-out/cx400m1/

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2019-11-01 CE-EN

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