

Data Sheet

FUJITSU Server PRIMERGY CX400 S2 Multi-Node Server Enclosure

Scale-Out Smart for HPC and Cloud Computing with enhanced energy efficiency

FUJITSU Server PRIMERGY systems provide the most powerful and flexible data center solutions for companies of all sizes, across all industries and for any type of workload. This includes expandable PRIMERGY tower servers for remote and branch offices, versatile rack-mount servers, compact and scalable blade systems, as well as density-optimized scale-out servers. They convince by business proven quality with a wide range of innovations, highest efficiency cutting operational cost and complexity, and provide more agility in daily operations in order to turn IT faster into a business advantage.

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-availability scenarios.

PRIMERGY CX400 S2

The Fujitsu Server PRIMERGY CX400 S2 Multi-Node system addresses enterprise customer needs for improved energy efficiency, higher platform density, better management effectiveness and overall lower investment when realizing their scale-out Cloud Computing, Big Data processing, High Performance Computing or Virtualization strategies. It provides a condensed form factor, enabling to Scale-Out Smart by packaging 4 independent dual socket server nodes and up to 24 local storage drives into a consolidated 2U rack enclosure. Cost-effectiveness is granted by conventional front-to-back cooling, rear-side external connectivity, installation and operation in existing rack and air conditioning infrastructures. Enhanced availability and low servicing efforts are obvious through hot-plug enabled server nodes, power supply and

disk drives. Energy consumption is minimized using shared redundant and highly efficient power supplies, and centrally installed fan units. With two or four half-wide server nodes in a single 2 U enclosure, doubling the density as compared to standard rack servers is achieved.

The PRIMERGY CX400 S2 acts as a replicable Smart Scale-Out building block to realize large scale-out solutions.



Features & Benefits

Main Features	Benefits
New condensed 4in2U server density <ul style="list-style-type: none"> ■ CX400 S2 features up to 4 half-wide dual socket server nodes plus up to 24 storage drives in a single 2U enclosure. 	<ul style="list-style-type: none"> ■ 50% less rack space used as compared to equivalent standard rack servers. Enables to scale-out in fine tuned granularity more smartly. Higher server density results in more performance per rack unit (4 servers, 8 processors, 24 drives and 64 DIMMs in 2U chassis).
Shared power and cooling <ul style="list-style-type: none"> ■ CX400 S2 features central cooling fans and 2 commonly shared highly efficient hot-plug power supplies. 	<ul style="list-style-type: none"> ■ Decreased energy consumption to even better meet power and cooling constraints and green IT mandates. Lower energy budgets for a comparable performance as for standard rack servers.
Full compliance to conventional datacenter environment <ul style="list-style-type: none"> ■ CX400 S2 complies to conventional datacenter front-to-back airflow and cooling and standard 19" industry rack infrastructure and applications. 	<ul style="list-style-type: none"> ■ Easy rack-wide team play with already existing datacenter infrastructure lowers overall investment.
Easy serviceability <ul style="list-style-type: none"> ■ Hot-plug for server nodes, power supplies and disk drives enable enhanced availability and easy serviceability. 	<ul style="list-style-type: none"> ■ Each single server can be serviced without affecting the other nodes in the chassis.
Variable local storage <ul style="list-style-type: none"> ■ Up to 24x 2.5" hot-plug storage drives with optional RAID technology integrate into the CX400 S2 system, with SAS or SATA interfaces for HDDs or SSDs. Alternatively a chassis version with 12x 3.5" hot plug SAS or SATA HDDs for higher total disk capacity can be chosen. 	<ul style="list-style-type: none"> ■ Flexibility of drive choice, adaptable to any demand, with full 3-year warranty. ■ Up to 6 drives may be assigned to a single server node, for strong demands of applications.
Choice of server nodes <ul style="list-style-type: none"> ■ Different dual socket server nodes featuring latest Intel® Xeon® processor E5-2600 v2 product family ■ Standard server node, 16 DIMMs (1U) ■ Enhanced HPC node with GPGPU/coprocessor option, 16 DIMMs (2U) 	<ul style="list-style-type: none"> ■ Different types of server nodes allow for best match to particular scale-out solution stacks. ■ Latest Intel® Xeon® processor E5-2600 v2 product family CPUs for top performance and lower energy budgets.

Technical details

PRIMERGY CX400 S2

Housing types	24= 4x 6 2.5-inch	12= 4x 3 or 2x 6 3.5-inch
Storage drive architecture	2.5-inch SAS/SATA/SSD	3.5-inch SATA

Enclosure

System unit type	2 U chassis for 19-inch rack
Front bays	Storage drives: 12x 3.5-inch or 24x 2.5-inch (HDD, SSD)
Rear bays	4 bays for half wide server trays CX2y0 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)	447 x 774.7 x 87.3 mm
Height Unit Rack	2 U
19" rackmount	Yes
Weight	up to 38 kg plus 2.5 kg for rack rails
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	1400 W (92% efficiency); 1200 W (94% efficiency)
Power supply configuration note	2x PSU in 1+1 redundancy configuration. System performance adjusted, when only one PSU is in operation.
Power supply efficiency	94 % (80 PLUS platinum) 92 %
Rated voltage range	1,400 W PSU: 200-240 V 1,200 W PSU: 100-240 V
Rated frequency range	50 Hz - 60 Hz
Rated current max.	8 A
Electrical value notes	Active power max. value depends on system configuration. For details see System Architect.

Environmental

Operating ambient temperature	10 - 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)
Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
Sound power (LWAd; 1B = 10dB)	6,9B (idle) / 7,4B (operating)
Noise emission	

Compliance

Germany	GS
Europe	CE Class A *
USA/Canada	ULc/us

Compliance

Global	CB RoHS (Substance limitations in accordance with global RoHS regulations) - planned WEEE (Waste electrical and electronic equipment) - planned
Japan	VCCI Class A + JIS 61000-3-2
Taiwan	CNS 13438 class A
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.
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates

Cloud Server Nodes

Product Model name	PRIMERGY CX250 S2	PRIMERGY CX270 S2
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.)	1,024 GB	1,024 GB
Number of Storage Drives (max.)	6x 2.5-inch or 3x 3.5-inch in CX400 S2	4x 2.5-inch or 3x 3.5-inch in CX400 S2

Warranty

Standard Warranty	3 years
Service level	Onsite Service
Maintenance and Support Services - the perfect extension	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://ts.fujitsu.com/Supportservice

More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu PRIMERGY CX400 S2, 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/services/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu PRIMERGY CX400 S2, 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>



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