Data Sheet
Fujitsu PRIMERGY CX2570 M5 Multi-Node Server

Faster insights with ultra-dense accelerator optimized server node

PRIMERGY CX2570 M5

The FUJITSU Server PRIMERGY CX2570 M5 delivers the latest processor technology, high speed memory as well as the most advanced GPU's built for scale-out workloads such as high performance computing, deep learning and data analytics. It incorporates the Intel® Xeon® Scalable Processor Family, new 2nd generation processors of the Intel® Xeon® Scalable Family (CLX-R), three UPI links per socket as well as a high core count of up to 28 cores per CPU. There are 16 DIMM slots available that can be equipped with enhanced DDR4 memory modules (up to 2.933 MT/s) providing a total capacity of 2TB. The CX2570 M5 storage options include six 2.5-inch SAS/SATA HDD/SSD drives per node, with additional option of using two M.2 drives or a dual microSD card directly in the server node as an internal boot device. Inspired by the demands of AI and data science, up to four SXM2-based accelerator cards can be used in one node. In order to solve these most complex HPC and AI challenges the node is available with liquid cooling. The PRIMERGY CX400 M4 chassis can be equipped with up to two CX2570 M5 servers. The PRIMERGY CX400 and its server nodes are also supported by Fujitsu's Software Infrastructure Manager (ISM) which gives organizations control and visibility over their entire data center, from servers, storage, networking and cloud management software to power and cooling using a single intuitive user interface. The standard ISM Essential license is free of charge. ISM Essential provides converged infrastructure monitoring as well as essential server management functions.





Features & Benefits

Main Features	Benefits
New efficiency for performance bottlenecks	
■ Wide choice of different types of Intel® Xeon® Scalable processors as well as new 2nd generation Intel® Xeon® Scalable processors. Each processor offers up to 28 cores and up to 56 threads enabling a notably higher performance and efficiency.	■ New SKUs of the 2nd generation Intel® Xeon® Scalable processors deliver additional customer value with increased performance and industry leading frequency (up to 3.9 GHz base and up to 44% more processor cache) for the most demanding workloads.
Increased DDR4 memory bandwidth	
■ Up to 2048 GB DDR4 memory with 16 DIMM slots. The Intel Xeon processors support 6 memory channels per socket (2 slots per channel) with faster memory support of max. 2.933 MT/s.	■ Enhanced DDR4 memories enables higher bandwidth and lower consumption. The right choice for any application.
Accelerate your most demanding workloads	
■ Wide selection of different available GPU accelerator cards (NVIDIA® Tesla®) for different purposes such as graphics virtualization, HPC, deep learning and AI. The CX2570 M5 server node can be equipped with up to four SXM2-based accelerator cards.	■ Data scientists and researchers can now parse petabytes of data orders of magnitude faster than they could using traditional CPUs, in applications ranging from energy exploration to deep learning. Tesla accelerators also deliver the horsepower needed to run bigger simulations faster than ever before.
Revolutionize data center management	
■ 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.	■ 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.

Technical details

PRIMERGY CX2570 M5	
Mainboard	
Mainboard type	D 3853
Chipset	Intel® C624
Processor quantity and type	1 - 2 x Intel® Xeon® Bronze 3xxx processor / Intel® Xeon® Silver 4xxx processor / Intel® Xeon® Gold 5xxx processor / Intel® Xeon® Gold 6xxx processor / Intel® Xeon® Platinum 8xxx processor
Memory slots	16 (8 DIMMs per CPU, 6 channels with 2 slots per channel)
Memory slot type	DIMM (DDR4)
Memory capacity (min. - max.)	8 GB - 2048 GB
Memory protection	Advanced ECC SDDC
Memory notes	Memory Mirroring Mode with identical modules in both channel pairs of a bank (4 or 6 modules per bank) per CPU. Rank Sparing Mode with minimum of 2 modules single ranked (1R) or dual ranked (2R) or 1 module quad ranked (4R) per CPU.
Notes	2x in PRIMERGY CX400 M4
Interfaces	
USB 3.x ports	2 x USB 3.0 (rear) with high density connector
Graphics (15-pin)	1 x VGA (1x rear) with high density connector
LAN / Ethernet (RJ-45)	2 / 1x Gbit/s Ethernet + 1x service LAN Onboard
Management LAN (RJ45)	Management LAN traffic can be switched to shared onboard Gbit LAN port
Onboard or integrated Controller	
RAID controller	8 Port RAID 0/1 or RAID 5/6 controller as option
SATA Controller	Intel® C624
LAN Controller	Intel® i210 onboard 10/100/1000 Mbit/s Ethernet
Remote management controller	IPMI 2.0 compatible Integrated Remote Management Controller (iRMC S5, 512 MB attached memory incl. graphics controller)
Trusted Platform Module (TPM)	optional TPM

Drive bays	
Storage drive bays	up to 6x 2.5-inch (in the PRIMERGY CX400 M4 chassis)
Storage drive bay configuration	up to 6x 2.5" HDD/SSD devices can be installed in CX400 M4 and 2x M.2 device can be installed in CX2570 M5 node
General system information	
Fan configuration	Redundant and hot-plug fans part of CX400 M4 chassis
Operating panel	
Operating buttons	On/off switch ID button
Status LEDs	Power (green) System status (orange) LAN speed (green / yellow) LAN connection (green) Identification (blue)
BIOS	
BIOS features	UEFI compliant Legacy BIOS compatibility customer configuration option IPMI support BIOS settings save and restore Remote iSCSI boot support Remote PXE boot support

Operating Systems and Virtualization Software	
Operating system release link	http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473
Operating system notes	

Infrastructure and Server Management	
Dimensions	
Dimensions (W x D x H)	174.3 x 580 x 40.5 mm
Height Unit Rack	2 U
Weight	4.5 kg
Node size	2 U half wide
Environment	
Operating ambient temperature	5 - 35 °C
Operating relative humidity	10 - 85 % (non condensing)
Temperature and humidity notes	Air cooling can support up to 165W CPU
Maximum altitude	3,000 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
Compliance	
Global	CB RoHS (Substance limitations in accordance with global RoHS regulations) WEEE (Waste electrical and electronical equipment) IEC 60950
Europe	CE Class A * EN 60950 - 1 EN 50371 EN 55022 EN 61000-3-3 EN 55024
USA/Canada	UL/CSA ICES-003 / NMB-003 Class A
Japan	VCCI Class A
Taiwan	CNS 13436 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. * Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Components

<STEPTABLE O="PMod_249897" OT="Product" TT="DS-Server-EU Warranty" VC="INT - eng" VO="stibo.10560277" W="Main" />

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.

Warranty	
Service Lifecycle	at least 5 years after shipment, for details see https://support.ts.fujitsu.com/
Service Weblink	http://ts.fujitsu.com/Supportservice

More information

Fujitsu platform solutions

In addition to Fujitsu PRIMERGY CX2570 M5, 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
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More information

Learn more about Fujitsu PRIMERGY CX2570 M5, 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/cx2570m5/

Fujitsu green policy innovation

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