

Data Sheet

Fujitsu PRIMERGY CX2570 M4 Multi-Node Server

HPC/VDI optimized node for PRIMERGY CX400 M4

PRIMERGY CX2570 M4

The FUJITSU Server PRIMERGY CX2570 M4 is a compact half-width 2U server node that combines powerful processors and great memory capacity making it ideally suited for Virtualized Desktop Infrastructures (VDI) as well as ambitious High Performance and Technical Computing. Two server nodes can be embedded in the PRIMERGY CX400 M4 enclosure, using only 2U height in conventional standard datacenter racks. The PRIMERGY CX2570 M4 combines high-end computational and graphics performance with high energy efficiency. Each server node can be equipped with new Intel® Xeon® Processor Scalable Family with up to 28 cores and latest DDR4 memory technology. Moreover, the node provides the option of using up to four optional NVIDIA® GPGPU's delivering the highest absolute performance for deep learning and many computationally intensive datacenter workloads. In addition to the basic onboard LAN, the node provides the option of using the DynamicLoM technology as well as an additional PCI Express® (PCIe) expansion slot.



Features & Benefits

Main Features	Benefits
<p>Maximize Efficiency</p> <ul style="list-style-type: none">■ Two PRIMERGY CX2570 M4 server nodes, each with latest Intel® Xeon® Processor Scalable Family, can be smartly packaged into a condensed 2U rack enclosure - enabling highest computing density. <p>Shared infrastructure & easy serviceability</p> <ul style="list-style-type: none">■ Server nodes share central cooling, hot-plug and redundant power supply units as well as storage drives within the 2U PRIMERGY CX400 M4 chassis. <p>Tailor-made IT infrastructure</p> <ul style="list-style-type: none">■ Server nodes share central cooling, hot-plug and redundant power supply units as well as storage drives within the 2U PRIMERGY CX400 M4 chassis. Basic onboard LAN, DynamicLoM technology and an additional PCIe Gen3 x16 slot for extended requirements. <p>Infrastructure Management</p> <ul style="list-style-type: none">■ 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.	<ul style="list-style-type: none">■ Well suited for enterprise workloads, web serving, dedicated hosting, infrastructure virtualization as well as analytics. Increased multi-tenancy and VM density for cloud application performance and parallelizable workloads.■ Decreased energy consumption and lower investments.■ Each single server can be serviced without affecting the other nodes in the chassis. Redundancy for shared components provides maximum reliability.■ Decreased energy consumption and lower investments. Each single server can be serviced without affecting the other nodes in the chassis. Redundancy for shared components provides maximum reliability.■ 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 M4

Mainboard

Mainboard type	D 3854
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 capacity (min. - max.)	8 GB - 2048 GB
Memory protection	Advanced ECC SDDC Rank sparing memory support Memory Mirroring support
Memory notes	Memory Mirroring with identical modules in both channel pairs of a bank, Rank sparing or Performance Mode with identical modules in all channels.
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	RAID 0/1 for internal drives
SATA Controller	Intel® C624, for up to 6x 2.5inch SATA HDD or SSD Raid 0/1
LAN Controller	Optional DynamicLoM OCP adaptors: 4 x 1 Gbit/s Ethernet (RJ45) 2 x 10 Gbit/s Ethernet (RJ45) 2 x 10 Gbit/s SFP+ 4 x 10 Gbit/s SFP+ Dynamic LOM can be installed in OCP slot as option
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

Slots

PCI-Express 3.0 x16	1 x for low profile and 1x for OCP Type1
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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" device can be installed in CX400 M4 and 2x M.2 device can be installed in CX2570 M4 node

General system information

Fan configuration	Redundant and hot-plug fans part of CX400 M4 chassis
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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 Secure boot support IPMI support BIOS settings save and restore Remote iSCSI boot support Remote PXE boot support
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Operating Systems and Virtualization Software

Certified or supported operating systems and virtualization software	VMware vSphere™ 7.0 VMware vSphere™ 6.7 VMware vSphere™ 6.5 VMware vSphere™ 6.0 Red Hat® Enterprise Linux 7
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 82.4 mm
Weight	8.2kg for PCIe type and 11.2 kg for SXM2 type
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	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

Compliance

Global	CB RoHS (Substance limitations in accordance with global RoHS regulations) WEEE (Waste electrical and electronic 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

Drives	SSD M.2 SATA, 6 Gb/s, 256 GB, non hot plug, enterprise, 0.13 DDPD (Drive Writes Per Day for 5 years)
	SSD M.2 SATA, 6 Gb/s, 128 GB, non hot plug, enterprise, 0.13 DDPD (Drive Writes Per Day for 5 years)
	SSD M.2 SATA, 6 Gb/s, 32 GB, non hot plug, enterprise
	HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical
	HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical
	HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical
	HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical
	HDD SAS, 12 Gb/s, 900 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 900 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 900 GB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 600 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 300 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED
	HDD SAS, 12 Gb/s, 1.8 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 1 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical
	Fujitsu PSAS CP400i SAS Ctrl. 12 Gbit/s 8 ports int. PCIe 3.0 x8
RAID Controller	Fujitsu PRAID EP540e LP, RAID 5/6 Ctrl., SAS 12 Gbit/s, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 4 GB, Optional FBU based on LSI SAS3516
	Fujitsu PRAID EP420i, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3108
	Fujitsu PRAID EP420i for SafeStore, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3108
	Fujitsu PRAID EP400i, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 1 GB, Optional FBU based on LSI SAS3108
	Fujitsu PRAID CP400i, RAID Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 1E, 10, 5, 50, No FBU support
Fibre Channel controller	Fibre Channel Host Bus Adapter 1 x 32 Gbit/s Cavium QLE2740 MMF LC-style
	Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Cavium QLE2742 MMF LC-style
	Fibre Channel Host Bus Adapter 1 x 32 Gbit/s Emulex LPe32000-M6-F MMF LC-style
	Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Emulex LPe32002-M6-F MMF LC-style
	Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Qlogic QLE2690 LC-style
	Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Qlogic QLE2692 LC-style
	Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Emulex LPe31000-M6-F MMF LC-style
	Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Emulex LPe31002-M6-F MMF LC-style
	Ethernet Ctrl. 2 x 10 Gbit/s ; 1 Gbit/s PCIe 3.0 x8 RJ45 (Intel®)
	Ethernet Ctrl. 2 x 10 Gbit/s / 25 Gbit/s PCIe 3.0 x8 SFP28 (Intel®)
	Ethernet Ctrl. 2 x 10 Gbit/s / 25 Gbit/s PCIe 3.0 x8 SFP28 (Mellanox)
	Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 SFP+ (Intel®)
	Ethernet Ctrl. 4 x 10 Gbit/s ; 1 Gbit/s PCIe 3.0 x8 RJ45 (Intel®)
	Ethernet Ctrl. 4 x 1 Gbit/s PCIe 2.1 x4 RJ45 (Intel®)
	Interface modul for Dynamic LoM 2 x 10 Gbit/s RJ45 (Intel®)
	Interface modul for Dynamic LoM 2 x 10 Gbit/s SFP+ (Intel®)
	Interface modul for Dynamic LoM 4 x 10 Gbit/s SFP+ (Intel®)
	Interface modul for Dynamic LoM 4 x 1 Gbit/s RJ45 (Intel®)
	Omni Path 1 x PCIe 3.0 x16 (Intel®)
LAN controller notes	Dynamic LOM can be installed in OCP slot as option

Graphics	1x Intel® Xeon Phi™ 5110P, N/A
Warranty	
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	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 M4, 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
www.fujitsu.com/software/

More information

Learn more about Fujitsu PRIMERGY CX2570 M4, 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/cx2570m4/>

Fujitsu green policy innovation

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Contact
FUJITSU LIMITED
Mies-van-der-Rohe-Straße 8
80807 München
Germany
Website: www.ts.fujitsu.com
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