Data Sheet
Fujitsu PRIMERGY CX2560 M4 PRIMERGY Cloud Servers

All-round server node for PRIMERGY CX400 M4

PRIMERGY CX2560 M4

The FUJITSU Server PRIMERGY CX2560 M4 is designed to be a workhorse for data centers looking for new levels of efficiency and density in an outstanding compact form factor. The CX2560 M4 is well-suited for mainstream enterprise workloads, web serving, dedicated hosting, infrastructure virtualization as well as analytics thanks to the high performance of the new Intel® Xeon® Processor Scalable Family with up to 28 cores and the latest DDR4 technology supporting up to 2,048 GB of main memory. The server node is prepared for individual future demands by offering various modular options. In addition to the basic onboard LAN, the node provides the option of using the DynamicLoM technology as well as two additional PCI Express® (PCIe) expansion slots. The CX2560 M4 nodes are housed in the PRIMERGY CX400 M4, a 2U modular chassis that delivers the density and efficiency of blade-like servers with the simplicity and cost benefits of rack-based systems. The CX400 M4 delivers efficiency through shared power, cooling and management.

Features & Benefits

Main Features	Benefits
Maximize Efficiency	
■ Four PRIMERGY CX2560 M4 server nodes, each with latest Intel® Xeon® Processor Scalable Family, can be smartly packaged into a condensed 2U rack enclosure.	■ Well suited for enterprise workloads, web serving, dedicated hosting, infrastructure virtualization as well as analytics.
■ Half-width, two-socket server node for PRIMERGY CX400 M4 chassis enabling highest computing density.	■ Ready for the future and data growth scenarios with the performance of two processors – marking the standard of tomorrow with an increase in computing power.
■ Intel® Xeon® Processor Scalable Family with up to 28 cores relying on Intel® UltraPath Interconnect for an increased data rate between the CPUs.	■ Increased multi-tenancy and VM density for cloud application performance and parallelizable workloads.
■ Up to 2,048 GB DDR4 memory with 2,666 MHz (16 DIMM slots).	■ High bandwidth connections for networking and memory performance.
Tailor-made IT infrastructure	
■ Server nodes share central cooling, hot-plug and redundant power supply units as well as storage drives within the 2U PRIMERGY CX400 M4 chassis.	■ Decreased energy consumption and lower investments.
■ Flexible storage capacity: Up to 6x SAS/SATA drives, thereof 2x PCIe SSDs.	■ Each single server can be serviced without affecting the other nodes in the chassis. Redundancy for shared components provides maximum reliability.
■ Basic onboard LAN, DynamicLoM technology and additional 2x PCIe Gen3 x16 slots for extended requirements.	■ Wide range of connectivity options guarantees the highest flexibility to integrate the server into existing infrastructures – now and in future without overhauling the existing infrastructure.
Simplify Complexity	
■ Fujitsu ServerView Suite including tools for installation and deployment, permanent status monitoring and control.	■ Enable faster IT service by automating and simplifying infrastructure operations across compute, storage and networking with ServerView Infrastructure Software Manager.
■ BIOS, firmware and selected software are updated free of charge.	■ The comprehensive tools of the Fujitsu ServerView Suite ease the administrator's life.
■ iRMC S5 comes with new interactive web UI and conforms to Redfish providing unified API support for heterogeneous environment.	■ Providing increased security and server administrator productivity, iRMC S5 simplifies server management.

Technical details

PRIMERGY CX2560 M4	
Mainboard	
Mainboard type	D 3854
Chipset	Intel® C624
Processor quantity and type	1 - 2 x Intel® Xeon® Processor Scalable Family
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 Scrubbing
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	4x 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 6 x 2.5 inch SATA or SSD SW 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	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" device can be installed in CX400 M4 and 2x M.2 device can be installed in CX2560 M4 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 Secure boot support IPMI support BIOS settings save and restore Remote iSCSI boot support Remote PXE boot support

Operating Systems and Virtualization Software	
Certified or supported operating systems and virtualization software	Windows Server 2019 Datacenter
	Windows Server 2019 Standard
	Windows Server 2019 Essentials
	Hyper-V Server 2016
	Windows Server 2016 Datacenter
	Windows Server 2016 Standard
	Windows Server 2016 Essentials
	Windows Storage Server 2016 Standard
	Hyper-V Server 2012 R2
	Windows Server 2012 R2 Datacenter
	Windows Server 2012 R2 Standard
	Windows Server 2012 R2 Essentials
	Windows Storage Server 2012 R2 Standard
	VMware vSphere™ 6.7
	VMware vSphere™ 6.5
	VMware vSphere™ 6.0
	SUSE® Linux Enterprise Server 12
	Red Hat® Enterprise Linux 8
	Red Hat® Enterprise Linux 7
	Red Hat® Enterprise Linux 6
	Oracle® Linux 7
	Oracle® Linux 6
	Oracle® VM 3
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
Weight	4.5 kg
Node size	1 U half wide

Environment	
Operating ambient temperature	5 - 35 °C
Operating relative humidity	10 - 85 % (non condensing)
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

Compliance	
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 DWPD (Drive Writes Per Day for 5 years)
	SSD M.2 SATA, 6 Gb/s, 128 GB, non hot plug, enterprise, 0.13 DWPD (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, 600 GB, 10,000 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
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
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®)
Communication, Network	InfiniBand HCA 1 x 100 Gbit/s PCIe 3.0 x16 QSFP for the US market max. one IB HCA 100Gb controller can be installed (Mellanox)
	InfiniBand HCA 1 x 56 Gbit/s PCIe 3.0 x8 QSFP for the US market max. one IB HCA 56Gb controller can be installed (Mellanox)
	InfiniBand HCA 2 x 100 Gbit/s PCIe 3.0 x16 QSFP for the US market max. one IB HCA 100Gb controller can be installed (Mellanox)
	InfiniBand HCA 2 x 56 Gbit/s PCIe 3.0 x8 QSFP for the US market max. one IB HCA 56Gb controller can be installed (Mellanox)
	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

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.
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 CX2560 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 CX2560 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/cx2560m4/

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