Data Sheet
FUJITSU Server PRIMERGY CX2560 M6 Multi-Node Server

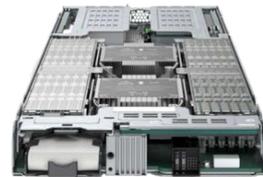Preliminary Data sheet / For internal use only

Balanced efficiency and expandability for demanding cloud and virtualization scenarios

Fujitsu offers a fantastic blend of systems, solutions and expertise to guarantee maximum productivity, efficiency and flexibility, delivering confidence and reliability. FUJITSU Server PRIMERGY systems deliver workload-optimized x86 industry standard servers for any workload and business demand. Since there is no single server solution to meet all these needs, Fujitsu offers a broad server portfolio consisting of expandable tower servers for remote and branch offices, versatile rack-mount servers and density-optimized multi-node servers. Whatever the size of your business – large enterprise with multiple sites, or a small or medium-sized company with limited space and budget – with the right choice of server, your IT can become the business enabler you have always wanted it to be.

PRIMERGY CX2560 M6
The FUJITSU Server PRIMERGY CX2560 M6 is a dual-socket x86 system designed for high performance with the latest generation of powerful processors, large memory capacity and scalable I/O resources in a small footprint. This combination made this server into an ideal all-rounder for virtualization and cloud scenarios. The multi-node system supports the 3rd Generation Intel® Xeon® Scalable Processors and delivers up to 24 cores per CPU and 3 UPI links the best performance for your workloads. To keep high-performance applications running smoothly, the CX 2560 M6 offers space for 24 DIMM modules with a bandwidth of up to 3200 MT/s. In combination with Intel® Optane™ persistent memory 200 series, capacity can increase up to 2 TB at lower prices than DRAM. The availability of larger persistent memory capacities allows larger amounts of data to remain closer to the CPU, which means faster processing and better insights. Get the storage flexibility and choose between 6xSAS/SATA/NVMe or 6xNVMe storage drives per node. The PRIMERGY CX2560 M6 supports the

new PCIe 4th generation with 3 slots and also provide a TPM and dedicated RAID module slot. A DynamicLoM adapter based on the new OPC V3 technology is seamless integrated in the system and makes your business ready for future changes. The PRIMERGY CX400 M6 enclosure, in which the CX2560 M6 node is used, allows the sharing of power and cooling to reduce costs. The CX400 M6 is a modular 2U shared infrastructure chassis for up to four nodes with all the traditional data center attributes such as standard 19" racks, cabling and rear-aisle serviceability access. It is the ideal solution which keeps pace with your growth and provides the flexibility to adapt to various virtualization and cloud scenarios.

Features & Benefits

Main Features	Benefits
Compact and modular foundation	
■ The PRIMERGY CX2560 M6 together with the PRIMERGY CX400 M6 chassis is Fujitsu's densest computing solution. There is room for up to four 1U dual-socket server nodes plus up to 24 storage drives. The CX400 M6 allows nodes and components to share power, cooling and management. Hot-plug and redundant power supply units and fan modules ensure maximum reliability.	■ With PRIMERGY CX400 M6 together with the CX2560 M6 node, you get much more server density in combination with high performance and best of data secure. It is the ideal solution for virtualization and cloud scenarios. In case the requirements change, it is possible to gradually add or remove server nodes as required by your business needs.
High performance on a small footprint	
■ The PRIMERGY CX2560 M6 comes with latest 3rd Generation Intel® Xeon® processors that delivers high performance (up to 165W TDP), three UPI links per socket as well as a high core count of up to 24 cores per CPU.	■ Ready for the future and data growth scenarios with the performance of up to two processors per node. Make the standard of tomorrow with an increase in computing power. With the new Intel® Xeon® processor generation, you get more performance on a small density.
Increased power with lower consumption	
■ 24 memory slots in total supporting 6TB memory with DDR4 DIMM modules (@ 3,200 MT/s) or up to 12TB memory in combination with Intel® Optane™ persistent memory. Persistent memory improves workload performance and power efficiency while reducing data loss and downtime with enhanced error handling. The modules revolutionizes the data center memory-storage hierarchy of the past and bring massive data sets closer to the CPU for faster time to insight.	■ With DDR4 and the Intel® Optane™ persistent memory the CX2560 M6 delivers a unique combination of affordable large capacity and high performance. It helps businesses drive innovation, process more data and make better decisions while lowering total cost and protecting data.
Easy Expandability	
■ Meet future demands and have the ability to scale easily your server system for your business needs. The PRIMERGY CX2560 M6 come with the base units of 6x2.5" of SAS/SATA/NVMe or 6x2.5" NVMe drives. In total, you have room for up to 24x storage drives in a CX400 M6 chassis with four CX2560 M6 nodes.	■ Be ready for future changes and combine high-performance PCIeSSD with normal SATA/SAS drive or choose only the PCIeSSD for your IT environment. No matter what, you will not only reduce latency but also improve the data transfer speed of your IT infrastructure.

Technical details

PRIMERGY CX2560 M6			
Base unit	PRIMERGY CX2560 M6 air cooling	PRIMERGY CX2560 M6 All NVMe	PRIMERGY CX2560 M6 SSD
Housing types	Air-cooled node	Air-cooled node	Air-cooled node
Product Type	Dual Socket 1U Server Node	Dual Socket 1U Server Node	Dual Socket 1U Server Node

Mainboard			
Mainboard type	D 3894		
Chipset	Intel® C621A		
Processor quantity and type	1 - 2 x Intel® Xeon® Silver 43xx processor / Intel® Xeon® Gold 53xx processor		
Mainboard type	D3894	D3894	D3894
Chipset	Intel® C621A	Intel® C621A	Intel® C621A
Memory slots	24 (12 DIMMs per CPU, 8 channels with 2 slots per channel)		
Memory slot type	DIMM (DDR4 RDIMM, LRDIMM and Intel® Optane™ PMem)		
Memory capacity (min. - max.)	8 GB - 3 TB		
Memory protection	ECC Memory Scrubbing SDDC ADDDC (Adaptive Double DRAM Device Correction) Memory Mirroring support		
Memory notes	Support R-DIMM		
Notes	4x in PRIMERGY CX400 M6		

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)	1 x shared management LAN port for iRMC S5 (10/100/1000 Mbit/s)
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® C621A
LAN Controller	Intel X550 (Onboard LAN) (on D3894-A1x) 10/100/1000/10000 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
PCI-Express 4.0 x8	
PCI-Express 4.0 x16	2 x x low profile PCIe 4.0 x16 slots (via riser card)
Slot Notes	1x dedicated RAID slot
Slots (Base unit specific)	

Drive bays	
Storage drive bays	up to 6x 2.5-inch drive bay per node (in the PRIMERGY CX400 M6 chassis), and 2x M.2 device (in the CX2560 M6 node)

General system information	
Fan configuration	Redundant and hot-plug fans part of CX400 M6 chassis

Operating panel	
Operating buttons	On/off switch ID button

Operating panel

Status LEDs	Power (DC-On: green / AC-On: white) System status (orange) LAN speed (green / yellow) LAN connection (green) Identification (blue)

BIOS

BIOS features	UEFI compliant IPMI support BIOS settings save and restore Remote PXE boot support

Operating Systems and Virtualization Software

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

Infrastructure and Server Management

DC Infrastructure Management	Infrastructure Manager (ISM)
	    Essential
	    Advanced

Server Management	ServerView Suite
	Infrastructure Manager (ISM)
	    Essential
	    Advanced

Management notes	For further information regarding ISM and ServerView Suite see dedicated data sheets.
Manageability link	http://docs.ts.fujitsu.com/dl.aspx?id=9e92297a-16fb-4c69-8559-e38e7b42fee6

Dimensions

Dimensions (W x D x H)	193.5 x 580.5 x 40 mm
Height Unit Rack	1 U
Weight	4.9 kg
Node size	1 U half wide

Environment

Operating ambient temperature	5 - 35 °C
Operating temperature note	PRIMERGY servers are designed for the usage with operating temperatures of up to 35°C. There could be configurations that are not able to work within this normal operation class. Please use the Fujitsu WebArchitect (www.fujitsu.com/configurator/public) to get detailed information on the corresponding configurations.
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)
Europe	CE
USA/Canada	cTUVus ICES-003 Class A FCC Class A
Japan	VCCI Class A
South Korea	KN32 KN35
Australia/New Zealand	AS/NZS CISPR32 Class A
Taiwan	CNS 13438 class A
Compliance link	https://sp.ts.fujitsu.com/sites/certificates

Compliance

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

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 EMEA please contact your local Fujitsu partner.
Service Lifecycle	5 years after end of product life
Service Weblink	https://www.fujitsu.com/emeia/support/

More information

Fujitsu products, solutions & services

In addition to FUJITSU Server PRIMERGY CX2560 M6, 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/products/computing/

Software
www.fujitsu.com/software/

More information

Learn more about FUJITSU Server PRIMERGY CX2560 M6, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
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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