

# Data Sheet

## PRIMERGY CX2550 M6 Multi-Node Server

Preliminary Data sheet / For internal use only

### High-performance computing optimized node for scale-out workloads

Fujitsu offers a fantastic blend of systems, solutions and expertise to guarantee maximum productivity, efficiency and flexibility, delivering confidence and reliability. PRIMERGY server 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 CX2550 M6

The Fujitsu server PRIMERGY CX2550 M6 is a cost-effective multi-node system with maximum power and the best protection of your data. The dual-socket server node comes with the 3rd Generation Intel® Xeon® Scalable processors. It 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. Ideal for memory intensive HPC workloads the DDR4 modules have a high bandwidth of up to 3200MT/s and room for up to 16xDIMM modules per node. The CX2550 M6 makes it possible to scale capacity and performance with up to two 2.5" SATA/PCIeSSD as well as the choice of DynamicLoM adapter via OCP V3 and up to two PCI-Express Gen4 slots. In order to best meet the needs of HPC environments, in particular the requirement for high density, the node can be used with standard air cooling. The PRIMERGY CX400 M6 enclosure, in which the CX2550 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.



# Features & Benefits

Main Features	Benefits
<p><b>Compact and modular foundation</b></p> <ul style="list-style-type: none"> <li>■ The PRIMERGY CX2550 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 8 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.</li> </ul> <p><b>Superior performance in a dense form factor</b></p> <ul style="list-style-type: none"> <li>■ The PRIMERGY CX2550 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.</li> </ul> <p><b>Increased power at low cost</b></p> <ul style="list-style-type: none"> <li>■ Ideal for memory intensive high performance computing workloads, the DDR4 DIMM modules have a high bandwidth of up to 3200MT/s and room for up to 16xDIMM modules per node. PRIMERGY CX2550 M6 comes with DynamicLoM adapters via OCP V3 as well as flexible PCIe riser cards with support for up to 2 x PCIe Gen4 slots.</li> </ul> <p><b>Comprehensive expansion options</b></p> <ul style="list-style-type: none"> <li>■ Fujitsu provides an overarching management for the new era of IT infrastructure with FUJITSU Software Infrastructure Manager (ISM) Advanced as well as the free-of-charge Essential version. ISM simplifies and automates IT operations and provides single, converged management for both the physical and the virtual environment, encompassing of computing, storage and network devices. The ISM Essential license is available free-of-charge and provides converged infrastructure monitoring and essential server management.</li> </ul>	<ul style="list-style-type: none"> <li>■ With PRIMERGY CX400 M6 multi-node server, you get much more server density compared to the standard rack servers. This makes it ideal for service providers, the automotive industry modeling new designs, state and local authorities to provide citizen services or a retailer analyzing consumer trends. In case the requirements change, the CX400 M6 makes it possible to gradually add or remove server nodes as required by your business needs.</li> <li>■ The PRIMERGY CX2550 M6 enables a flexible and fast response to rapidly changing IT demands. It provides the best performance for scale-out workloads such as high performance and technical computing with the new generation of Intel® Xeon® Processors Scalable Family.</li> <li>■ With up to 4 TB of DDR4 memory, combine performance and versatility to adapt to a variety of applications to meet future needs. The higher bandwidth let the applications run smoothly, without any problems. Save time and money, and focus on business goals.</li> <li>■ Fujitsu offers comprehensive infrastructure management and server management solutions, which is key to efficient data center operations. They provide all the functions for flexible and automated 24x7 IT operations and improve end-user productivity via intelligent and innovative system management solutions. FUJITSU Software Infrastructure Manager enables organizations to drive towards the path of achieving software-defined infrastructure, by automating and simplifying infrastructure operations across compute, storage and networking.</li> </ul>

# Technical details

## PRIMERGY CX2550 M6

Base unit	PRIMERGY CX2550 M6 air cooling	PRIMERGY CX2550 M6 SSD
Housing types	Air-cooled node	Air-cooled node
Product Type	Dual Socket 1U Server Node	Dual Socket 1U Server Node

### Mainboard

Mainboard type	D 3893
Chipset	Intel® C621A
Processor quantity and type	1 - 2 x Intel® Xeon® Gold 53xx processor / Intel® Xeon® Silver 43xx processor
Memory slots	16 (8 DIMMs per CPU, 8 channels with 1 slot per channel)
Memory slot type	DIMM (DDR4)
Memory capacity (min. - max.)	8 GB - 2 TB
Memory protection	ECC Memory Scrubbing SDDC
Memory notes	Support RDIMM and LRDIMM
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)

### Onboard or integrated Controller

RAID controller	8 Port RAID 0/1 or RAID 5/6 controller as option
SATA Controller	Intel® C621A
LAN Controller	BCM5727 (On board LAN) (on D3893-Axx) 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)
PCI-Express 5.0 x8	
PCI-Express 4.0 x16	2 x low profile (via riser card)
Slots (Base unit specific)	

### Drive bays

Storage drive bays	up to 2x 2.5-inch drive bay per node (in the PRIMERGY CX400 M6 chassis), and 2x M.2 device (in the CX2550 M6 node)
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### General system information

Fan configuration	Redundant and hot-plug fans part of CX400 M6 chassis
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### Operating panel

Operating buttons	On/off switch ID button
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
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### Operating Systems and Virtualization Software

Operating system release link	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfb3230473">http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfb3230473</a>
Operating system notes	Use of certified or supported operating systems and virtualization software is subject to proactive acceptance of the respective License Agreements/ EULAs/ Subscription and support terms of the Software manufacturer as applicable for the relevant Software whether preinstalled or optional. The software may only be available bundled with a software support subscription which – depending on the Software - may be subject to separate remuneration.

### Infrastructure and Server Management

DC Infrastructure Management	Infrastructure Manager (ISM) Essential Edition Advanced Edition
Server Management	Infrastructure Manager (ISM) Essential Edition Advanced Edition ServerView Suite
Management notes	For further information regarding ISM and ServerView Suite see dedicated data sheets.
Manageability link	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=9e92297a-16fb-4c69-8559-e38e7b42fee6">http://docs.ts.fujitsu.com/dl.aspx?id=9e92297a-16fb-4c69-8559-e38e7b42fee6</a>

### Dimensions

Dimensions (W x D x H)	193.5 x 572.8 x 40 mm
Height Unit Rack	1 U
Weight	5.1 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 ( <a href="http://www.fujitsu.com/configurator/public">www.fujitsu.com/configurator/public</a> ) 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	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe">http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe</a>

### Compliance

Global	CB RoHS (Substance limitations in accordance with global RoHS regulations) WEEE (Waste electrical and electronic 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	<a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</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. *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

**Notes**

Compatibility	If and to the extent a list of components or certain compatibilities are specified in the product data sheet, these component lists and compatibility specifications are exhaustive. Using deviating or other system components and applications together with the product may but does not necessarily have to lead to compatibility problems. A final statement and/or commitment on the compatibility of such deviating or other system components and applications can only be provided after a corresponding verification through a dedicated compatibility testing.
Continuity management	The product may in connection with and depending on the specific configuration include elements to support time- and performance-critical applications, however high availability (e.g., 99.9999%) and failsafe performance is not a standalone product feature. If and to the extent the product is to be used in such business-critical environments, it is within the sole responsibility of the user to set up the specific additional technical features (e.g., Storage Cluster), redundancies, and operational conditions as required to ensure such high availability or failsafe performance.
Security	The properties of the product provide a baseline for product security and therefore end-customer IT security. However, these properties are not sufficient on their own to protect the product from all existing threats, such as intrusion attempts, data exfiltration and other forms of cyberattacks. To customize security settings, please use the configuration options as available for the respective product. During operation, the IT security of this product is within the responsibility of the respective administrator/end-user of the product. Please note, that Fujitsu as a manufacturer does not make any policy prescriptions or advocacy statements regarding IT security best practices and/or general product operation.

**Warranty**

Manufacturer warranty period	3 years
Warranty type	Onsite warranty
<b>Product Support - the perfect extension</b>	
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 <a href="https://support.ts.fujitsu.com/">https://support.ts.fujitsu.com/</a>
Service Weblink	<a href="https://www.fujitsu.com/emeia/support/">https://www.fujitsu.com/emeia/support/</a>

# More information

## Fujitsu products, solutions & services

In addition to PRIMERGY CX2550 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

Built 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 offerings. This allows customers to select 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/](http://www.fujitsu.com/global/products/computing/)

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

## More information

Learn more about PRIMERGY CX2550 M6, 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/cx2550m6/>

## 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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## Disclaimer

Please note that the data sheet reflects the technical specification with the maximum selection of components for the named system and not the detailed scope of delivery. The scope of delivery is defined by the selection of components at the time of ordering. The product was developed for normal business use.

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2024-08-26 WW-EN