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 M7

The PRIMERGY CX2550 M7 server 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 5th Generation Intel® Xeon® Scalable processors. It delivers high performance (up to 270W TDP), four UPI links per socket as well as a high core count of up to 32 cores per CPU. Ideal for memory intensive HPC workloads the DDR5 modules have a high bandwidth of up to 4800MT/s and room for up to 16xDIMM modules per node. The CX2550 M7 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 5.0 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 M7 enclosure, in which the CX2550 M7 node is used, allows the sharing of power and cooling to reduce costs. The CX400 M7 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

<table>
<thead>
<tr>
<th>Main Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compact and modular foundation</td>
<td>With PRIMERGY CX400 M7 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 M7 makes it possible to gradually add or remove server nodes as required by your business needs.</td>
</tr>
<tr>
<td>Superior performance in a dense form factor</td>
<td>The PRIMERGY CX2550 M7 enables a flexible and fast response to rapidly changing IT demands. It provides the best performance for scale-out workloads such as high performance.</td>
</tr>
<tr>
<td>Increased power at low cost</td>
<td>With up to 4 TB of DDR5 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.</td>
</tr>
<tr>
<td>Comprehensive expansion options</td>
<td>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.</td>
</tr>
</tbody>
</table>

The PRIMERGY CX2550 M7 together with the PRIMERGY CX400 M7 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 M7 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 M7 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 M7 makes it possible to gradually add or remove server nodes as required by your business needs.

The PRIMERGY CX2550 M7 enables a flexible and fast response to rapidly changing IT demands. It provides the best performance for scale-out workloads such as high performance.

With up to 4 TB of DDR5 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.

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.
### Technical details

**PRIMERGY CX2550 M7**

**Base unit**
- PRIMERGY CX2550 M7 air cooling
- PRIMERGY CX2550 M7 air cooling all 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 3988

**Chipset**
- Intel® C741

**Processor quantity and type**

<table>
<thead>
<tr>
<th>Processor Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel® Xeon® Bronze Processor</td>
<td>Intel® Xeon® Bronze 3408U (8C, 1.8 GHz, TLC: 22.5 MB, Turbo: 1.90 GHz, 16 GT/s, 4,000MHz, 125 W)</td>
</tr>
<tr>
<td>Intel® Xeon® Bronze Processor</td>
<td>Intel® Xeon® Bronze 3508U (8C/16T, 2.1 GHz, TLC: 22.5 MB, Turbo: 2.20 GHz, 4,400MHz, 125 W)</td>
</tr>
<tr>
<td>Intel® Xeon® Silver Processor</td>
<td>Intel® Xeon® Silver 4410Y (16C/32T, 2.0 GHz, TLC: 30 MB, Turbo: 2.60 GHz, 16 GT/s, 4,400MHz, 150 W)</td>
</tr>
<tr>
<td>Intel® Xeon® Silver Processor</td>
<td>Intel® Xeon® Silver 4416Y (24C, 2.1 GHz, TLC: 45 MB, Turbo: 2.90 GHz, 16 GT/s, 4,800MHz, 185 W)</td>
</tr>
<tr>
<td>Intel® Xeon® Gold processor</td>
<td>Intel® Xeon® Gold 5412U (24C, 2.1 GHz, TLC: 45 MB, Turbo: 2.90 GHz, 16 GT/s, 4,800MHz, 185 W)</td>
</tr>
<tr>
<td>Intel® Xeon® Gold processor</td>
<td>Intel® Xeon® Gold 5415+ (8C, 2.9 GHz, TLC: 22.5 MB, Turbo: 3.60 GHz, 16 GT/s, 4,800MHz, 185 W)</td>
</tr>
<tr>
<td>Intel® Xeon® Gold processor</td>
<td>Intel® Xeon® Gold 5416S (16C, 2.0 GHz, TLC: 30 MB, Turbo: 2.80 GHz, 16 GT/s, 4,800MHz, 185 W)</td>
</tr>
<tr>
<td>Intel® Xeon® Gold processor</td>
<td>Intel® Xeon® Gold 5418N (24C, 1.8 GHz, TLC: 45 MB, Turbo: 2.60 GHz, 16 GT/s, 4,800MHz, 185 W)</td>
</tr>
<tr>
<td>Intel® Xeon® Gold processor</td>
<td>Intel® Xeon® Gold 5418Y (24C, 2.0 GHz, TLC: 45 MB, Turbo: 2.80 GHz, 16 GT/s, 4,400MHz, 185 W)</td>
</tr>
<tr>
<td>Intel® Xeon® Gold processor</td>
<td>Intel® Xeon® Gold 5512U (28C, 1.8 GHz, TLC: 52.5 MB, Turbo: 3.00 GHz, 4,800MHz, 185 W)</td>
</tr>
<tr>
<td>Intel® Xeon® Gold processor</td>
<td>Intel® Xeon® Gold 5515+ (8C, 3.2 GHz, TLC: 22.5 MB, Turbo: 3.60 GHz, 20 GT/s, 4,800MHz, 185 W)</td>
</tr>
<tr>
<td>Intel® Xeon® Gold processor</td>
<td>Intel® Xeon® Gold 6426Y (16C, 2.5 GHz, TLC: 37.5 MB, Turbo: 3.30 GHz, 16 GT/s, 4,800MHz, 185 W)</td>
</tr>
<tr>
<td>Intel® Xeon® Gold processor</td>
<td>Intel® Xeon® Gold 6428N (32 C, 1.8 GHz, TLC: 60 MB, Turbo: 2.50 GHz, 16 GT/s, 4,000MHz, 185 W)</td>
</tr>
</tbody>
</table>

**Memory slots**
- N/A

**Memory slot type**
- DIMM (DDR5)

**Memory capacity (min. - max.)**
- 8 GB - 4 TB
Memory protection

- ECC
- Memory Scrubbing
- SDDC

Memory notes

Support RDIMM

Standard memory modules

- 16 GB (1 module(s) 16 GB) DDR5, registered, ECC, 4,800 MT/s, PC5-38400, DIMM, 1Rx8
- 32 GB (1 module(s) 32 GB) DDR5, registered, ECC, 4,800 MT/s, PC5-38400, DIMM, 1Rx4
- 32 GB (1 module(s) 32 GB) DDR5, registered, ECC, 4,800 MT/s, PC5-38400, DIMM, 2Rx8
- 64 GB (1 module(s) 64 GB) DDR5, registered, ECC, 4,800 MT/s, PC5-38400, DIMM, 2Rx4
- 128 GB (1 module(s) 128 GB) DDR5, registered, ECC, 4,800 MT/s, PC5-38400, DIMM, 4Rx4
- 256 GB (1 module(s) 256 GB) DDR5, registered, ECC, 4,800 MT/s, PC5-38400, DIMM, 8Rx4

Notes

4x in PRIMERGY CX400 M7

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 S6 (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® C741
- 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 S6, 1024 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 M7 chassis), and 2x M.2 device (in the CX2550 M7 node)

General system information

Fan configuration

- Redundant and hot-plug fans part of CX400 M7 chassis

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

Operating Systems and Virtualization Software

Operating system release link


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

<table>
<thead>
<tr>
<th>DC Infrastructure Management</th>
<th>Infrastructure Manager (ISM)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Essential Edition</td>
</tr>
<tr>
<td></td>
<td>Advanced Edition</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Server Management</th>
<th>Infrastructure Manager (ISM)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Essential Edition</td>
</tr>
<tr>
<td></td>
<td>Advanced Edition</td>
</tr>
</tbody>
</table>

|                      | ServerView Suite             |

| 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-e38e7b42f6ee6](http://docs.ts.fujitsu.com/dl.aspx?id=9e92297a-16fb-4c69-8559-e38e7b42f6ee6) |

## Dimensions

<table>
<thead>
<tr>
<th>Dimensions (W x D x H)</th>
<th>193.5 x 580.5 x 40 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height Unit Rack</td>
<td>1 U</td>
</tr>
<tr>
<td>Weight</td>
<td>5.1 kg</td>
</tr>
<tr>
<td>Node size</td>
<td>1 U half wide</td>
</tr>
</tbody>
</table>

## Environment

<table>
<thead>
<tr>
<th>Operating ambient temperature</th>
<th>5 - 35 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature note</td>
<td>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.</td>
</tr>
<tr>
<td>Operating relative humidity</td>
<td>8 - 85 % (non condensing)</td>
</tr>
<tr>
<td>Temperature and humidity notes</td>
<td>Air cooling can support up to 185W CPU</td>
</tr>
<tr>
<td>Maximum altitude</td>
<td>3,050 m</td>
</tr>
<tr>
<td>Operating environment</td>
<td>FTS 04230 – Guideline for Data Center (installation specification)</td>
</tr>
</tbody>
</table>

## 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](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
## SSD SATA 2.5-inch

- **SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD**
- **SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.0 DWPD**
- **SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD**
- **SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD**
- **SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD**
- **SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.0 DWPD**
- **SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD**
- **SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.4 DWPD**
- **SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD**
- **SSD SATA, 6 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD**
- **SSD SATA, 6 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD**
- **SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD**
- **SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD**

## PCIe SSD & SATA DOM SSD

- **PCIe-SSD SFF, 15.36 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD**
- **PCIe-SSD SFF, 12.8 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD**

## SCSI / SAS Controller

- **Broadcom® PSAS CP600i LP SAS Ctrl. 12 Gbit/s PCIe 3.0 x8**
- **Broadcom® PSAS CP600e LP SAS Ctrl. 12 Gbit/s PCIe 3.0 x8**

## RAID Controller

- **pre-configured RAID1 Array for M.2 in PDUAL, Fujitsu PRAID EP680i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 16 GT/s, 16 ports int. RAID level: 0, 1, 5, 50, 6, 60, 8 GB, Optional FBU based on LSI SAS3916**
- **Fujitsu PRAID EP680e LP, RAID 5/6 Ctrl., SAS 12 Gbit/s, 8 ports ext. RAID level: 0, 1, 5, 50, 6, 60, 8 GB, Optional FBU based on LSI SAS3516**
- **Fujitsu PRAID EP640i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 4 GB, Optional FBU based on LSI SAS3508**
- **Broadcom® PRAID CP600i LP, RAID Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, No FBU support**

## 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
- **Product Support - the perfect extension**: Onsite warranty
- **Recommended Service**: 24x7, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.
More information

Fujitsu products, solutions & services
In addition to PRIMERGY CX2550 M7, 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/

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

More information
Learn more about PRIMERGY CX2550 M7, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/primergy

Contact
Fujitsu LIMITED
Website: www.fujitsu.com
2024-07-02 WW-EN

Copyrights
All rights reserved, including intellectual property rights. Designations may be trademarks and/or copyrights of the respective owner, the use of which by third parties for their own purposes may infringe the rights of such owner. For further information see https://www.fujitsu.com/global/about/resources/terms/
Copyright 2024 Fujitsu LIMITED

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. Technical data is subject to modification and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective owner, the use of which by third parties for their own purposes may infringe the rights of such owner.