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 M7

The Fujitsu PRIMERGY Server CX2560 M7 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 4th Generation Intel® Xeon® Scalable Processors and delivers up to 32 cores per CPU and 4 UPI links the best performance for your workloads. To keep high-performance applications running smoothly, the CX2560 M7 offers space for 24 DIMM modules with a bandwidth of up to 4800 MT/s. Get the storage flexibility and choose between 6xSAS/SATA/NVMe or 6xNVMe storage drives per node. The PRIMERGY CX2560 M7 supports the new PCIe 5th 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 M7 enclosure, in which the CX2560 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. 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

<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 together with the CX2560 M7 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.</td>
</tr>
<tr>
<td>The PRIMERGY CX2560 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 24 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.</td>
<td>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.</td>
</tr>
<tr>
<td>High performance on a small footprint</td>
<td>With DDR5 memory the CX2560 M7 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.</td>
</tr>
<tr>
<td>The PRIMERGY CX2560 M7 comes with latest 4th Generation Intel® Xeon® processors that delivers high performance (up to 185W TDP), three UPI links per socket as well as a high core count of up to 32 cores per CPU.</td>
<td>Be ready for future changes and combine high-performance PCIe SSD with normal SATA/SAS drive or choose only the PCIe SSD for your IT environment. No matter what, you will not only reduce latency but also improve the data transfer speed of your IT infrastructure.</td>
</tr>
</tbody>
</table>

### Increased power with lower consumption

- 24 memory slots in total supporting 6TB memory with DDR5 DIMM modules (@ 4,800 MT/s). 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.

### Easy Expandability

- Meet future demands and have the ability to scale easily your server system for your business needs. The PRIMERGY CX2560 M7 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 M7 chassis with four CX2560 M7 nodes.
# Technical details

## PRIMERGY CX2560 M7

<table>
<thead>
<tr>
<th><strong>Base unit</strong></th>
<th>PRIMERGY CX2560 M7 air cooling</th>
<th>PRIMERGY CX2560 M7 all NVMe</th>
<th>PRIMERGY CX2560 M7 air cooling all SSD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Housing types</strong></td>
<td>Air-cooled node</td>
<td>Air-cooled node</td>
<td>Air-cooled node</td>
</tr>
<tr>
<td><strong>Product Type</strong></td>
<td>Dual Socket 1U Server Node</td>
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<td>Dual Socket 1U Server Node</td>
</tr>
</tbody>
</table>

### Mainboard
- **Mainboard type**: D 3989
- **Chipset**: Intel® C741

### Processor
- **Processor quantity and type**: 1 - 2 x Intel® Xeon® Silver 4xxx processor / Intel® Xeon® Gold 5xxx processor / Intel® Xeon® Gold 6xxx processor
  - **Intel® Xeon® Bronze Processor**
    - Intel® Xeon® Bronze 3408U (8C, 1.8 GHz, TLC: 22.5 MB, Turbo: 1.90 GHz, 16 GT/s, Mem bus: 4,000MHz, 125 W)
  - **Intel® Xeon® Silver Processor**
    - Intel® Xeon® Silver 4410T (10C, 2.7 GHz, TLC: 26.25 MB, Turbo: 3.40 GHz, 16 GT/s, Mem bus: 4,000MHz, 150 W)
    - Intel® Xeon® Silver 4411Y (12C, 2.0 GHz, TLC: 30 MB, Turbo: 2.90 GHz, 16 GT/s, Mem bus: 4,000MHz, 150 W)
    - Intel® Xeon® Silver 4416+ (20C, 2.0 GHz, TLC: 37.5 MB, Turbo: 2.90 GHz, 16 GT/s, Mem bus: 4,000MHz, 165 W)
  - **Intel® Xeon® Gold Processor**
    - Intel® Xeon® Gold 5412U (24C, 2.1 GHz, TLC: 45 MB, Turbo: 2.90 GHz, 16 GT/s, Mem bus: 4,000MHz, 185 W)
    - Intel® Xeon® Gold 5415+ (8C, 2.9 GHz, TLC: 22.5 MB, Turbo: 3.60 GHz, 16 GT/s, Mem bus: 4,000MHz, 150 W)
    - Intel® Xeon® Gold 5416S (20C, 2.0 GHz, TLC: 37.5 MB, Turbo: 2.90 GHz, 16 GT/s, Mem bus: 4,000MHz, 150 W)
    - Intel® Xeon® Gold 5418N (32C, 1.8 GHz, TLC: 60 MB, Turbo: 2.50 GHz, 16 GT/s, Mem bus: 4,000MHz, 185 W)

### Memory slots
- **24 (12 DIMMs per CPU, 8 channels with 2 slots per channel)**

### Memory slot type
- **DIMM (DDRS)**

### Memory capacity (min. - max.)
- **8 GB - 6 TB**

### Memory protection
- ECC
- Memory Scrubbing
- SDDC
- ADDDC (Adaptive Double DRAM Device Correction)
- Memory Mirroring support

### Memory notes
- Support R-DIMM

### Standard memory modules
- **128 GB (1 module(s) 128 GB) DDR5, registered, ECC, 4,800 MT/s, PC5-4800, DIMM, 4Rx4**
- **16 GB (1 module(s) 16 GB) DDR5, registered, ECC, 4,800 MT/s, PC5-4800, DIMM, 1Rx8**
- **256 GB (2 module(s) 256 GB) DDR5, registered, ECC, 4,800 MT/s, PC5-4800, DIMM, 8Rx4**
- **32 GB (1 module(s) 32 GB) DDR5, registered, ECC, 4,800 MT/s, PC5-4800, DIMM, 1Rx4**
- **32 GB (1 module(s) 32 GB) DDR5, registered, ECC, 4,800 MT/s, PC5-4800, DIMM, 2Rx8**
- **64 GB (1 module(s) 64 GB) DDR5, registered, ECC, 4,800 MT/s, PC5-4800, DIMM, 2Rx4**

### 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)  
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® C741  
- **LAN Controller**: Intel X550 (Onboard LAN) (on D3989-A1x)  
  10/100/1000/10000 Mbit/s Ethernet  
- **Remote management controller**: IPMI 2.0 compatible Integrated Remote Management Controller (iRMC S6, 1024 MB attached memory incl. graphics controller)  
- **Trusted Platform Module (TPM)**: optional TPM  
- **PCI-Express**:  
  - **PCI-Express 5.0 x8**  
  - **PCI-Express 5.0 x16**: 2 x low profile PCIe 5.0 x16 slots (via riser card)  
  - **Slot Notes**: 1x dedicated RAID slot

**Drive bays**

- **Storage drive bays**: up to 6x 2.5-inch drive bay per node (in the PRIMERGY CX400 M7 chassis), and 2x M.2 device (in the CX2560 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**: http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfb3230473  
- **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**: ServerView Suite  
  - **Infrastructure Manager (ISM)**  
  - **Essential Edition**  
  - **Advanced Edition**  
- **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
Dimensions

- 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: 8 - 85% (non condensing), maximum dew point 21°C (non condensing)
- Temperature and humidity notes: Air cooling can support up to 165W CPU
- Maximum altitude: 3,050 m
- Operating environment notes: FTS 04230 – Guideline for Data Center (installation specification)

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 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

**Hard disk drives**

- HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512n, 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

**Hard disk drives (continued)**

- HDD SAS, 12 Gb/s, 900 GB, 15,000 rpm, 512n, 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, 600 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED
- 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, 300 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
- HDD SAS, 12 Gb/s, 2.4 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise, SED
- HDD SAS, 12 Gb/s, 2.4 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
- HDD SAS, 12 Gb/s, 2.4 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
- HDD SAS, 12 Gb/s, 2.4 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical
- HDD SAS, 12 Gb/s, 1.8 TB, 10,000 rpm, 512e, 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, 512n, hot-plug, 2.5-inch, enterprise, SED
- HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED
- HDD SAS, 12 Gb/s, 1 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical
<table>
<thead>
<tr>
<th>Solid-State-Drive</th>
<th>SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)</th>
</tr>
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<td></td>
<td>SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)</td>
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<td>SSD SATA, 6 Gb/s, 960 GB, non hot plug, enterprise, 1.5 DWPD (Drive Writes Per Day for 5 years)</td>
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<td>SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.0 DWPD (Drive Writes Per Day for 5 years)</td>
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<td>SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)</td>
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<td>SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)</td>
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<td>SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)</td>
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<td>SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)</td>
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<td>SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)</td>
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<td>SSD SATA, 6 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)</td>
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<td>SSD SATA, 6 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)</td>
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<td>SSD M.2 SATA, 6 Gb/s, 240 GB, non hot plug, enterprise, 1.5 DWPD (Drive Writes Per Day for 5 years)</td>
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</table>
### Solid-State-Drive

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<tr>
<th>Capacity</th>
<th>Interface</th>
<th>Type</th>
<th>Hot-plug</th>
<th>Drive Writes Per Day (for 5 years)</th>
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<tbody>
<tr>
<td>SSD SAS, 22.5Gb/s, 800 GB</td>
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<td>SSD SAS, 22.5Gb/s, 15.36 TB</td>
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<td>SSD SAS, 22.5Gb/s, 7.68 TB</td>
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<td>SSD SAS, 22.5Gb/s, 3.84 TB</td>
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<td>PCIe-SSD SFF, 960 GB</td>
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<td>PCIe-SSD SFF, 15.36 TB</td>
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<td>PCIe-SSD SFF, 7.68 TB</td>
<td>Read-Intensive, hot-plug, 2.5-inch, Flash drive</td>
<td>1.0 DWPD</td>
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<td>PCIe-SSD SFF, 6.4 TB</td>
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<td>PCIe-SSD SFF, 3.84 TB</td>
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<td>PCIe-SSD SFF, 1.6 TB</td>
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### 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
- 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, 10, 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, 10, 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 SAS3908
- Broadcom® PRAID CP600i LP RAID Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, No FBU support
**Fibre Channel controller**

- Fibre Channel Host Bus Adapter 1 x 32 Gbit/s Emulex LPE35000-M2-F MMF LC-style
- Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Emulex LPE35002-M2-F MMF LC-style
- Fibre Channel Host Bus Adapter 1 x  Emulex LPE36000-M64-F MMF LC-style
- Fibre Channel Host Bus Adapter 2 x  Emulex LPE36002-M64-F MMF 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

**Warranty**

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<th>Warranty</th>
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<td>Warranty type</td>
<td>Onsite warranty</td>
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**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: https://www.fujitsu.com/emeia/support/
More information

Fujitsu products, solutions & services
In addition to Fujitsu PRIMERGY CX2560 M7, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

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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 PRIMERGY CX2560 M7, 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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