Data Sheet
Fujitsu PRIMERGY CX2570 M5 Multi-Node Server

Faster insights with ultra-dense accelerator optimized server node

**PREMERGY CX2570 M5**
The FUJITSU Server PRIMERGY CX2570 M5 delivers the latest processor technology, high speed memory as well as the most advanced GPU's built for scale-out workloads such as high performance computing, deep learning and data analytics. It incorporates the Intel® Xeon® Scalable Processor Family, new 2nd generation processors of the Intel® Xeon® Scalable Family (CLX-R), three UPI links per socket as well as a high core count of up to 28 cores per CPU. There are 16 DIMM slots available that can be equipped with enhanced DDR4 memory modules (up to 2.933 MT/s) providing a total capacity of 2TB. The CX2570 M5 storage options include six 2.5-inch SAS/SATA HDD/SSD drives per node, with additional option of using two M.2 drives or a dual microSD card directly in the server node as an internal boot device. Inspired by the demands of AI and data science, up to four SXM2-based accelerator cards can be used in one node. In order to solve these most complex HPC and AI challenges the node is available with liquid cooling. The PRIMERGY CX400 M4 chassis can be equipped with up to two CX2570 M5 servers. The PRIMERGY CX400 and its server nodes are also supported by Fujitsu's Software Infrastructure Manager (ISM) which gives organizations control and visibility over their entire data center, from servers, storage, networking and cloud management software to power and cooling using a single intuitive user interface. The standard ISM Essential license is free of charge. ISM Essential provides converged infrastructure monitoring as well as essential server management functions.
## Features & Benefits

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<tr>
<th>Main Features</th>
<th>Benefits</th>
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<td>New efficiency for performance bottlenecks</td>
<td>New SKUs of the 2nd generation Intel® Xeon® Scalable processors deliver additional customer value with increased performance and industry leading frequency (up to 3.9 GHz base and up to 44% more processor cache) for the most demanding workloads.</td>
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<td>Wide choice of different types of Intel® Xeon® Scalable processors as well as new 2nd generation Intel® Xeon® Scalable processors. Each processor offers up to 28 cores and up to 56 threads enabling a notably higher performance and efficiency. Increased DDR4 memory bandwidth.</td>
<td>Enhanced DDR4 memories enables higher bandwidth and lower consumption. The right choice for any application.</td>
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<td>Up to 2048 GB DDR4 memory with 16 DIMM slots. The Intel Xeon processors support 6 memory channels per socket (2 slots per channel) with faster memory support of max. 2.933 MT/s. Accelerate your most demanding workloads.</td>
<td>Data scientists and researchers can now parse petabytes of data orders of magnitude faster than they could using traditional CPUs, in applications ranging from energy exploration to deep learning. Tesla accelerators also deliver the horsepower needed to run bigger simulations faster than ever before.</td>
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<td>Wide selection of different available GPU accelerator cards (NVIDIA® Tesla®) for different purposes such as graphics virtualization, HPC, deep learning and AI. The CX2570 M5 server node can be equipped with up to four SXM2-based accelerator cards.</td>
<td>Converged data center management that provides organizations centralized control over the entire infrastructure that includes servers, storage, networking, cloud management software as well as power and cooling using a single user interface.</td>
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<td>Revolutionize data center management</td>
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## Technical details

### PRIMERGY CX2570 M5

#### Mainboard
- **Mainboard type**: D 3853
- **Chipset**: Intel® C624
- **Processor quantity and type**: 1 - 2 x Intel® Xeon® Bronze 3xxx processor / Intel® Xeon® Silver 4xxx processor / Intel® Xeon® Gold 5xxx processor / Intel® Xeon® Gold 6xxx processor / Intel® Xeon® Platinum 8xxx processor
- **Memory slots**: 16 (8 DIMMs per CPU, 6 channels with 2 slots per channel)
- **Memory slot type**: DIMM (DDR4)
- **Memory capacity (min. - max.)**: 8 GB - 2048 GB
- **Memory protection**: Advanced ECC SDDC
- **Memory notes**: Memory Mirroring Mode with identical modules in both channel pairs of a bank (4 or 6 modules per bank) per CPU. Rank Sparing Mode with minimum of 2 modules single ranked (1R) or dual ranked (2R) or 1 module quad ranked (4R) per CPU.

#### Notes
- 2x 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**: 8 Port RAID 0/1 or RAID 5/6 controller as option
- **SATA Controller**: Intel® C624
- **LAN Controller**: Intel® i210 onboard 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)
- **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” HDD/SSD devices can be installed in CX400 M4 and 2x M.2 device can be installed in CX2570 M5 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 IPMI support BIOS settings save and restore Remote iSCSI boot support Remote PXE boot support
Operating Systems and Virtualization Software

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

**Operating system notes**

Infrastructure and Server Management

**Dimensions**

- **Dimensions (W x D x H)** 174.3 x 580 x 40.5 mm
- **Height Unit Rack** 2 U
- **Weight** 4.5 kg
- **Node size** 2 U half wide

**Environment**

- **Operating ambient temperature** 5 - 35 °C
- **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)

**Compliance**

- **Global**
  - CB
  - RoHS (Substance limitations in accordance with global RoHS regulations)
  - WEEE (Waste electrical and electronical equipment)
  - IEC 60950

- **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

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.
### Warranty

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<tr>
<th>Service Lifecycle</th>
<th>at least 5 years after shipment, for details see <a href="https://support.ts.fujitsu.com/">https://support.ts.fujitsu.com/</a></th>
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<td>Service Weblink</td>
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More information

Fujitsu platform solutions
In addition to Fujitsu PRIMERGY CX2570 M5, 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 CX2570 M5, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

Fujitsu green policy innovation

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