PRIMERGY GX2570 M6

The Fujitsu Server PRIMERGY GX2570 M6 is an advanced dual socket rack server enhanced with the latest technology high-density GPU configurations to accelerate Artificial Intelligence (AI), Data Science and High Performance Computing (HPC) workloads to extract breakthrough insights from data. This powerful system comes with a high density, next generation 8x NVIDIA A100 SXM4 GPU (80GB) configuration along with up to 2x 3rd Generation Intel® Xeon® Processor Scalable Family CPUs and up to 2TB (32 DIMM) latest generation DDR4 technology plus NVIDIA certified. Designed for delivering high-grade GPU acceleration, the server is meant for demanding use-cases such as Deep Learning (AI) and Data Science deployments, plus other demanding workloads such as HPC. The server is also well-balanced by design, and fields up to 10x storage devices (four can be high-speed NVMe), and up to 10x PCIe Gen4 expansion slots (8x can be assigned for NIC cards for high speed direct access to the GPU). Energy efficient 3000W Platinum power supplies (2+2 redundant) provide ample power to run the high-grade workloads. Furthermore, the server supports Fujitsu ISM, to enhance admin productivity and ease server usage across the entire lifecycle.
# Features & Benefits

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<th>Main Features</th>
<th>Benefits</th>
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<td><strong>Top of the line performance for heavy-duty AI, Data Science and HPC workloads</strong>&lt;br&gt;■ 8x NVIDIA A100 SXM4 GPUs (HGX platform) plus 2x 3rd Generation Intel® Xeon® Scalable Processors with up to 2TB memory (32 DIMM slots).&lt;br&gt;Broad range of flexible hardware configuration options&lt;br&gt;■ Up to 6x high speed SAS/SATA/NVMe drives (front) plus 4 optional NVMe (rear), 10x PCIe Gen4 slots (8x PCIe can field NICs for high speed direct access to 8x GPUs), support for advanced RAID cards, 1x OCP LAN. Additional I/O ports include 2x USB 3.0, 1x VGA.&lt;br&gt;Investment and lifecycle cost protection&lt;br&gt;■ Up to 4x 3000W (2+2) configuration Platinum Power supplies, for high energy efficiency and redundancy.</td>
<td><strong>True no-compromise technology with 3rd Generation Intel® Xeon® Scalable Processors, high performance DDR4 memory, NVIDIA A100 80GB GPUs with high-speed interconnects. These servers perform far better across heavy-duty Deep Learning (AI), Data Science and HPC workloads, than regular units. NVIDIA certified testing ensure server is already checked out for multiple use-cases.</strong>&lt;br&gt;Drive options include high-speed NVMe, storage and networking controllers, so that the server can be tailored to specific business needs. Versatile PCIe slots allow efficient server upgrade. While essential I/O requirements are also met with dedicated I/O ports.&lt;br&gt;High efficiency power supplies save costs over the server lifecycle, while the provision for N+1 redundancy (in this case 2+2) allows a standby PSU to replace a PSU which has failed, ensuring the server continues working without loss of valuable data or hardware damage, protecting your investment.&lt;br&gt;Administrator confidence as Fujitsu pretests software and hardware. ISM functions include server status and event monitoring, update, inventory and archive management, logging and auditing, floor layout and rack-view, all via an easy to use UI, for easy server administration.</td>
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| Easy to deploy, use and maintain<br>■ Pre-tested qualified OS support by Fujitsu apart from NVIDIA certifications, support for essential Fujitsu ISM functions. |}

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## Technical details

### PRIMERGY GX2570 M6
- **Product Type:** Dual Socket Rack Server

### Mainboard
- **Mainboard type:** MBD-X12DGO-6
- **Processor quantity and type:** 2 x Intel® Xeon® Gold 53xx processor / Intel® Xeon® Gold 63xx processor
- **Memory slots:** 32
- **Memory capacity (min. - max.):** 512 GB - 2 TB

### Interfaces
- **USB 3.x ports:** 2

### Onboard or integrated Controller
- **SATA Controller:** Intel® C621A
- **LAN Controller:** Dynamic LoM via OCP slot; OCPv3 compliant
  - Optional OCP adaptors:
    - 4 x 1 Gbit/s Ethernet (RJ45)
    - 2 x 10 Gbit/s Ethernet (RJ45)
    - 2 x 10 Gbit/s SFP+
    - 2 x 25 Gbit/s SFP+
    - 2x 100 Gbit/s QSFP28
  
### Remote management controller
- IPMI 2.0 compatible

### Slots
- **PCI-Express 4.0 x16:** 10 x
- **Slot Notes:** 8x slots can be used for NIC cards for direct high-throughput GPU access

### Drive bays
- **Storage drive bays:** 6x SAS/SATA/NVMe (front)+4 NVMe (rear, optional) x 2.5-inch

### General system information
- **Number of fans:** 12
- **Fan configuration:** CPU Node: 8x 1U fans, GPU node: 4x heavy-duty fans
- **Operating buttons:** On/off switch
- **Status LEDs:** Identification (blue)

### Operating Systems and Virtualization Software
- **Certified or supported operating systems and virtualization software:**
  - VMware vSphere™ 8.0
  - VMware vSphere™ 7.0
  - SUSE® Linux Enterprise Server 15
  - Red Hat® Enterprise Linux 8
- **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.

### DC Infrastructure Management
- **Infrastructure Manager (ISM):**
  - Essential Edition
  - Advanced Edition

### Server Management
- **Infrastructure Manager (ISM):**
  - Essential Edition
  - Advanced Edition

### Floor-stand (W x D x H)
- **Rack (W x D x H):** 485 x 947 x 175 mm
- **Height Unit Rack:** 4 U
Components

**SSD SATA 2.5-inch**
- SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.5 DWPD
- SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.5 DWPD
- SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, 2.5-inch, enterprise, 1.5 DWPD
- SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.5 DWPD

**HDD 2.5-inch**
- HDD SAS, 12 Gb/s, 600 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
- HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise

**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
- PCIe-SSD SFF, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD
- PCIe-SSD SFF, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD
- PCIe-SSD SFF, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD
- PCIe-SSD SFF, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD
- PCIe-SSD SFF, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD
- PCIe-SSD SFF, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD

**Communication, Network**
- Ethernet Ctrl. 2 x 100 Gbit/s OCPV3 QSFP28 (Intel®)
- Ethernet Ctrl. 2 x 100 Gbit/s OCPV3 QSFP28 (Mellanox)
- Ethernet Ctrl. 2 x 10 Gbit/s; 1 Gbit/s OCPV3 RJ45 (Intel®)
- Ethernet Ctrl. 2 x 10 Gbit/s / 25 Gbit/s OCPV3 SFP28 (Mellanox)
- Ethernet Ctrl. 2 x 10 Gbit/s OCPV3 SFP+ (Intel®)
- Ethernet Ctrl. 2 x 25 Gbit/s OCPV3 SFP28 (Intel®)
- Ethernet Ctrl. 4 x 10 Gbit/s OCPV3 SFP+ (Intel®)
- Ethernet Ctrl. 4 x 1 Gbit/s OCPV3 RJ45 (Intel®)

- InfiniBand HCA 1 x 200Gb/s PCIe x16 QSFP for the US market max. one IB HCA 200Gb controller can be installed (Mellanox)
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
Warranty Terms & Conditions www.fujitsu.com/support
Support Pack Options 9x5, 4h Onsite Response Time (depending on country)
9x5, Next Business Day Onsite Response Time
24x7, 4h Onsite Response Time (depending on country)
Recommended Service 24x7 Onsite Service with 4h Onsite Response Time
Service Lifecycle at least 5 years after shipment, for details see https://support.ts.fujitsu.com/
More information

Fujitsu products, solutions & services
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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.

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Please find further information at http://www.fujitsu.com/global/about/environment

Fujitsu products, solutions & services

More information
Learn more about PRIMERGY GX2570 M6, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
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