Performance oriented server for high-grade AI, Data Science and HPC workloads

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, density-optimized multi-node servers as well as GPU accelerated servers optimized for AI. 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 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

<table>
<thead>
<tr>
<th>Main Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top of the line performance for heavy-duty AI, Data Science and HPC workloads</td>
<td>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.</td>
</tr>
<tr>
<td>8x NVIDIA A100 SXM4 GPUs (HGX platform) plus 2x 3rd Generation Intel® Xeon® Scalable Processors with up to 2TB memory (32 DIMM slots).</td>
<td></td>
</tr>
<tr>
<td>Broad range of flexible hardware configuration options</td>
<td>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.</td>
</tr>
<tr>
<td>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.</td>
<td>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.</td>
</tr>
<tr>
<td>Investment and lifecycle cost protection</td>
<td>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>
</tr>
<tr>
<td>Up to 4x 3000W (2+2) configuration Platinum Power supplies, for high energy efficiency and redundancy.</td>
<td>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>
</tr>
<tr>
<td>Easy to deploy, use and maintain</td>
<td>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>
</tr>
<tr>
<td>Pre-tested qualified OS support by Fujitsu apart from NVIDIA certifications, support for essential Fujitsu ISM functions.</td>
<td>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>
</tr>
</tbody>
</table>
## Technical details

### PRIMERGY GX2570 M6

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Dual Socket Rack Server</th>
</tr>
</thead>
</table>

### Mainboard

<table>
<thead>
<tr>
<th>Mainboard type</th>
<th>MBD-X12DGO-6</th>
</tr>
</thead>
</table>

### Processor quantity and type

- **Intel® Xeon® Gold Processor**
  - Intel® Xeon® Gold 5318S (24C, 2.10 GHz, TLC: 36 MB, Turbo: 2.60 GHz, Mem bus: 2,933 MHz, 165 W, AVX Base 1.90 GHz, AVX Turbo 2.60 GHz)
  - Intel® Xeon® Gold 5318Y (24C, 2.10 GHz, TLC: 36 MB, Turbo: 2.60 GHz, Mem bus: 2,933 MHz, 165 W, AVX Base 1.90 GHz, AVX Turbo 2.60 GHz)
  - Intel® Xeon® Gold 6326 (16C, 2.9 GHz, TLC: 24 MB, Turbo: 3.30 GHz, Mem bus: 3,200 MHz, 185 W, AVX Base 2.50 GHz, AVX Turbo 2.60 GHz)
  - Intel® Xeon® Gold 6330 (28C, 2.0 GHz, TLC: 42 MB, Turbo: 2.60 GHz, Mem bus: 3,200 MHz, 205 W, AVX Base 1.70 GHz, AVX Turbo 2.60 GHz)
  - Intel® Xeon® Gold 6336Y (24C, 2.4 GHz, TLC: 36 MB, Turbo: 3.00 GHz, Mem bus: 3,200 MHz, 185 W, AVX Base 2.10 GHz, AVX Turbo 2.90 GHz)
  - Intel® Xeon® Gold 6338 (32C, 2.0 GHz, TLC: 48 MB, Turbo: 2.60 GHz, Mem bus: 3,200 MHz, 205 W, AVX Base 1.80 GHz, AVX Turbo 2.60 GHz)
  - Intel® Xeon® Gold 6346 (16C, 3.10 GHz, TLC: 36 MB, Turbo: 2.60 GHz, Mem bus: 3,200 MHz, 205 W, AVX Base 2.80 GHz, AVX Turbo 3.50 GHz)

- **Intel® Xeon® Platinum Processor**
  - Intel® Xeon® Platinum 8352V (36C, 2.10 GHz, TLC: 54 MB, Turbo: 2.50 GHz, Mem bus: 3,200 MHz, 195 W, AVX Base 1.70 GHz, AVX Turbo 2.50 GHz)

<table>
<thead>
<tr>
<th>Memory slots</th>
<th>32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory capacity (min. - max.)</td>
<td>512 GB - 2 TB</td>
</tr>
</tbody>
</table>

### Standard memory modules

- 16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 1Rx4
- 32 GB (1 module(s) 32 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 1Rx4
- 64 GB (1 module(s) 64 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx4

### Interfaces

| USB 3.x ports | 2                                      |

### Onboard or integrated Controller

<table>
<thead>
<tr>
<th>SATA Controller</th>
<th>Intel® C621A</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAN Controller</td>
<td>Dynamic LoM via OCP slot; OCPv3 compliant</td>
</tr>
<tr>
<td>Optional OCP adaptors:</td>
<td>4 x 1 Gbit/s Ethernet (RJ45)</td>
</tr>
<tr>
<td></td>
<td>2 x 10 Gbit/s Ethernet (RJ45)</td>
</tr>
<tr>
<td></td>
<td>2 x 10 Gbit/s SFP+</td>
</tr>
<tr>
<td></td>
<td>4 x 10 Gbit/s SFP+</td>
</tr>
<tr>
<td></td>
<td>2 x 25 Gbit/s SFP+</td>
</tr>
<tr>
<td></td>
<td>2 x 100 Gbit/s QSFP28</td>
</tr>
</tbody>
</table>

### Remote management controller

- IPMI 2.0 compatible

### Slots

<table>
<thead>
<tr>
<th>PCI-Express 4.0 x16</th>
<th>10 x</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slot Notes</td>
<td>8x slots can be used for NIC cards for direct high-throughput GPU access</td>
</tr>
</tbody>
</table>

### Drive bays

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

### General system information

<table>
<thead>
<tr>
<th>Number of fans</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan configuration</td>
<td>CPU Node: 8x 1U fans, GPU node: 4x heavy-duty fans</td>
</tr>
<tr>
<td>Operating buttons</td>
<td>On/off switch</td>
</tr>
<tr>
<td>Status LEDs</td>
<td>Identification (blue)</td>
</tr>
</tbody>
</table>
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 release link http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfb5230473

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
Weight notes Actual weight may vary depending on configuration

Floor-stand (W x D x H)
Weight 7,0

Environment

Operating ambient temperature 10 - 35 °C
Operating environment FTS 04230 – Guideline for Data Center (installation specification)

Electrical values

Active power (max. configuration) 5,347 W
Heat emission (max. configuration) 19249.2 kJ/h (18244.7 BTU/h)

Compliance

Product PRIMERGY GX2570 M6
Global CB
Europe CE Class A *
USA/Canada FCC Class A
Japan VCCI:V3 Class A + JIS 61000-3-2
Taiwan BSMI
Compliance link https://sp.ts.fujitsu.com/sites/certificates

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 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, 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
HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
## Solid-State-Drive

- **SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.5 DWPD (Drive Writes Per Day for 5 years)**
- **SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.5 DWPD (Drive Writes Per Day for 5 years)**
- **SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, 2.5-inch, enterprise, 1.5 DWPD (Drive Writes Per Day for 5 years)**
- **SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.5 DWPD (Drive Writes Per Day for 5 years)**

## PCIe SSD & SATA DOM SSD

- **PCIe-SSD SFF, 960 GB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD (Drive Writes Per Day for 5 years)**
- **PCIe-SSD SFF, 15.36 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD (Drive Writes Per Day for 5 years)**
- **PCIe-SSD SFF, 12.8 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)**
- **PCIe-SSD SFF, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD (Drive Writes Per Day for 5 years)**
- **PCIe-SSD SFF, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)**
- **PCIe-SSD SFF, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD (Drive Writes Per Day for 5 years)**
- **PCIe-SSD SFF, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)**
- **PCIe-SSD SFF, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD (Drive Writes Per Day for 5 years)**
- **PCIe-SSD SFF, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)**

## RAID Controller

- **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, based on LSI SAS3916**
- **Fujitsu PRAID EP580i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 8 Gbit/s, 16 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 8 GB, Optional FBU based on LSI SAS3516**
- **Fujitsu PRAID EP540i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 8 Gbit/s, 8 Gbit/s 16 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 4 GB, Optional FBU based on LSI SAS3516**
- **Fujitsu PRAID EP520i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3516**

## Communication, Network

- **InfiniBand HCA 1 x 200Gb/s PCIe x16 QSFP for the US market max. one IB HCA 200Gb controller can be installed ( Mellanox )**
- **InfiniBand HCA 2 x 200Gb/s PCIe x16 QSFP for the US market max. one IB HCA 200Gb controller can be installed ( Mellanox )**

## Warranty

<table>
<thead>
<tr>
<th>Warranty</th>
<th>3 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warranty type</td>
<td>Onsite warranty</td>
</tr>
<tr>
<td>Warranty Terms &amp; Conditions</td>
<td><a href="http://www.fujitsu.com/support">www.fujitsu.com/support</a></td>
</tr>
</tbody>
</table>

## 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/**

## Service Weblink

- **http://www.fujitsu.com/emeia/products/product-support-services/**
More information

Fujitsu products, solutions & services
In addition to Fujitsu PRIMERGY GX2570 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/

Software
www.fujitsu.com/software/

More information
Learn more about Fujitsu PRIMERGY GX2570 M6, 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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