Data Sheet
Fujitsu PRIMERGY GX2570 M6 GPU Server

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

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

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
Intel® Xeon® Gold Processor	Intel® Xeon® Gold 5318S (24C, 2.1 GHz, TLC: 36 MB, Turbo: 2.60 GHz, 11.2 GT/s, 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, 11.2 GT/s, 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, 11.2 GT/s, Mem bus: 3,200 MHz, 185 W, AVX Base 2.50 GHz, AVX Turbo 3.30 GHz)
	Intel® Xeon® Gold 6330 (28C, 2.0 GHz, TLC: 42 MB, Turbo: 2.60 GHz, 11.2 GT/s, 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, 11.2 GT/s, Mem bus: 3,200 MHz, 185 W, AVX Base 2.10 GHz, AVX Turbo 2.90 GHz)
	Intel® Xeon® Gold 6338 (32 C, 2.0 GHz, TLC: 48 MB, Turbo: 2.60 GHz, 11.2 GT/s, 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: 3.60 GHz, 11.2 GT/s, 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, 11.2 GT/s, Mem bus: 3,200 MHz, 195 W, AVX Base 1.70 GHz, AVX Turbo 2.50 GHz)
Memory slots	32
Memory capacity (min. - max.)	512 GB - 2 TB
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	
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+ 4 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 release link	http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473
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	70,7
Environment	
Operating ambient temperature	10 - 35 °C
Operating environment	FTS 04230 – Guideline for Data Center (installation specification)
Operating environment link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe
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, 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, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)
	PCIe-SSD SFF, 1 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 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, 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	Ethernet Ctrl. 2 x 100 Gbit/s OCPV3 QSFP28 (Intel®)
	Ethernet Ctrl. 2 x 100 Gbit/s OCPV3 QSFP28 (Mellanox)
	Ethernet Ctrl. 2 x 100 Gbit/s PCIe 4.0 x16 QSFP28 (Intel®)
	Ethernet Ctrl. 2 x 100 Gbit/s QSFP28 (Mellanox)
	Ethernet Ctrl. 2 x 10 Gbit/s ; 1 Gbit/s OCPV3 RJ45 (Intel®)
	Ethernet Ctrl. 2 x 10 Gbit/s ; 1 Gbit/s PCIe 3.0 x8 RJ45 (Intel®)
	Ethernet Ctrl. 2 x 10 Gbit/s / 25 Gbit/s OCPV3 SFP28 (Mellanox)
	Ethernet Ctrl. 2 x 10 Gbit/s / 25 Gbit/s PCIe 3.0 x8 SFP28 (Mellanox)
	Ethernet Ctrl. 2 x 10 Gbit/s OCPV3 SFP+ (Intel®)
	Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 SFP+ (Intel®)
	Ethernet Ctrl. 2 x 25 Gbit/s OCPV3 SFP28 (Intel®)
	Ethernet Ctrl. 2 x 25 Gbit/s PCIe 4.0 x8 SFP28 (Intel®)
	Ethernet Ctrl. 4 x 10 Gbit/s ; 1 Gbit/s PCIe 3.0 x8 RJ45 (Intel®)
	Ethernet Ctrl. 4 x 10 Gbit/s OCPV3 SFP+ (Intel®)
	Ethernet Ctrl. 4 x 10 Gbit/s PCIe 3.0 x8 SFP+ (Intel®)
	Ethernet Ctrl. 4 x 1 Gbit/s OCPV3 RJ45 (Intel®)
	Ethernet Ctrl. 4 x 1 Gbit/s PCIe 2.1 x4 RJ45 (Intel®)
	InfiniBand HCA 1 x 100 Gbit/s PCIe 3.0 x16 QSFP for the US market max. one IB HCA 100Gb controller can be installed (Mellanox)
	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 100 Gbit/s PCIe 3.0 x16 QSFP for the US market max. one IB HCA 100Gb 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	
Warranty period	3 years
Warranty type	Onsite warranty
Warranty Terms & Conditions	www.fujitsu.com/support
Product Support - the perfect extension	
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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