

Data Sheet

Fujitsu PRIMERGY GX2560 M7 GPU Server

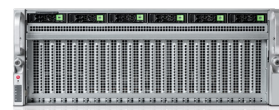
Elevate your business to new heights and stay ahead of the competition

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 GX2560 M7

Introducing the Fujitsu PRIMERGY GX2560 M7, a powerhouse designed to elevate your computing experience. Equipped with the 4th generation of Intel® Xeon® Scalable Processor, combined with 4x NVIDIA HGX H100 GPUs this server delivers unrivaled generative AI and HPC performance with high efficiency. With DDR5 memory support, you can achieve even greater processing power for your demanding workloads. Featuring up to 4 UPI and 32 DDR5 memory slots operating at a blazing bandwidth of 4,800 MT/s, the GX2560 M7 ensures seamless multitasking and accelerated data processing. Its front-end can accommodate up to 6 SATA/SAS/NVMe storage devices, providing ample space for your expanding data needs. Unlocking new levels of computational prowess, this server is equipped with 4x NVIDIA HGX H100 GPUs (SXM5 type). Prepared for enhanced visualizations and accelerated computations. With the addition of the 5th generation of PCIe slots, offering up to 6 slots, you can optimize your system for high-speed data

transfers and expandability. The PCIe 5.0 IB card further enhances connectivity and data exchange. Rest easy knowing that the PRIMERGY GX2560 M7 comes with comprehensive BMC support, including the security features, API integration and TLS1.2 compatibility. Your data is safeguarded, and you have complete control over your server's operations. Experience the next generation of performance and reliability with the Fujitsu PRIMERGY GX2560 M7. Elevate your business to new heights and stay ahead of the competition.



Features & Benefits

Main Features	Benefits
<p>Unleash Unmatched Power</p> <ul style="list-style-type: none">■ The PRIMERGY GX2560 M7 is equipped with a powerful 4th generation Intel® Xeon® Scalable Processor combined with 4x high-end NVIDIA HGX H100 GPUs, delivering impressive computing power and efficiency for highest generative AI solutions like HPC, Machine learning, language processing, etc.	<ul style="list-style-type: none">■ This procession combination of 4th generation Intel® Xeon® Scalable Processor and NVIDIA H100 GPU in the GX2560 M7 ensures that you experience exceptional outstanding performance and efficiency for your demanding apps. This means faster data processing, improved HPC performance, and enhanced AI for all your tasks.
<p>Turbocharge Processing</p> <ul style="list-style-type: none">■ With the ideal combination of High-end NVIDIA GPU, 4th Gen Intel Xeon processors and DDR5 (4800MT/s) memory support you achieve even higher processing performance when handling the most demanding generative AI workloads with ease.	<ul style="list-style-type: none">■ DDR5 memory DIMM unlock even greater processing capabilities. The latest memory technology enables to handle resource-intensive workloads with ease, resulting in improved memory performance.
<p>Seamless Multitasking</p> <ul style="list-style-type: none">■ The GX2560 M7 offers 32 DDR5 memory slots with an impressive bandwidth of 4,800 MT/s. This allows for seamless multitasking and high-speed data processing.	<ul style="list-style-type: none">■ The GX2560 M7's 32 DDR5 memory slots with a bandwidth of 4,800 MT/s provide you with seamless multitasking and accelerated data processing. This means you can run multiple applications simultaneously without sacrificing performance, ensuring a smooth and efficient workflow.
<p>Expand Storage Horizons</p> <ul style="list-style-type: none">■ With space for up to 6 SATA/SAS/NVMe storage devices in the front, the GX2560 M7 provides internal storage capacity for your data processiong needs. Utilize the storage space efficiently and secure your important data.	<ul style="list-style-type: none">■ With the ability to accommodate up to 6 SATA/SAS/NVMe storage devices in the front, you have ample storage capacity for your growing data needs. This allows you to store and access your data quickly and efficiently, ensuring seamless operations and easy scalability.
<p>Exceptional AI and HPC Performance</p> <ul style="list-style-type: none">■ The GX2560 M7 is equipped with the impressive 4x NVIDIA HGX H100 cards. Experience outstanding performance and accelerated computations for demanding conversational AI, HPC applications and machine learning. Get the most out of your language processing.	<ul style="list-style-type: none">■ The inclusion of up to 4x NVIDIA HGX H100 in the GX2560 M7 brings significant advantages to you. You can experience exceptional AI performance and accelerated computations, making it perfect for demanding applications, such as machine learning, and high-performance computing. It enables you to achieve stunning results and process complex data faster than ever before.

Technical details

PRIMERGY GX2560 M7

Base unit	PRIMERGY GX2560 M7
Housing types	Rack
Power supply	Hot-plug
Product Type	Dual Socket Rack Server

Mainboard

Mainboard type	MBD-X13DGU
Processor quantity and type	2 x Intel® Xeon® Gold 54xx processor / Intel® Xeon® Gold 64xx processor / Intel® Xeon® Platinum 84xx processor

Intel® Xeon® Gold Processor

Intel® Xeon® Gold 5420+ (28C, 2.0 GHz, TLC: 52.5 MB, Turbo: 2.70 GHz, 16 GT/s, Mem bus: 4,400MHz, 205 W)
 Intel® Xeon® Gold 6430 (32 C, 2.1 GHz, TLC: 60 MB, Turbo: 3.00 GHz, 16 GT/s, Mem bus: 4,400MHz, 270 W)
 Intel® Xeon® Gold 6438M (32 C, 2.2 GHz, TLC: 60 MB, Turbo: 2.80 GHz, 16 GT/s, Mem bus: 4,800MHz, 205 W)
 Intel® Xeon® Gold 6438N (32 C, 2.0 GHz, TLC: 60 MB, Turbo: 2.70 GHz, 16 GT/s, Mem bus: 4,800MHz, 205 W)
 Intel® Xeon® Gold 6448Y (32 C, 2.1 GHz, TLC: 60 MB, Turbo: 3.00 GHz, 16 GT/s, Mem bus: 4,800MHz, 225 W)
 Intel® Xeon® Gold 6454S (32 C, 2.2 GHz, TLC: 60 MB, Turbo: 2.80 GHz, 16 GT/s, Mem bus: 4,800MHz, 270 W)

Intel® Xeon® Platinum Processor

Intel® Xeon® Platinum 8452Y (36C, 2.0 GHz, TLC: 67.5 MB, Turbo: 2.80 GHz, 16 GT/s, Mem bus: 4,800MHz, 300 W)
 Intel® Xeon® Platinum 8458P (44C, 2.7 GHz, TLC: 82.5 MB, Turbo: 3.20 GHz, 16 GT/s, Mem bus: 4,800MHz, 350 W)
 Intel® Xeon® Platinum 8460Y+ (40C, 2.0 GHz, TLC: 105 MB, Turbo: 2.80 GHz, 16 GT/s, Mem bus: 4,800MHz, 350 W)
 Intel® Xeon® Platinum 8462Y+ (32 C, 2.8 GHz, TLC: 60 MB, Turbo: 3.60 GHz, 16 GT/s, Mem bus: 4,800MHz, 300 W)
 Intel® Xeon® Platinum 8468 (48C, 2.1 GHz, TLC: 105 MB, Turbo: 3.10 GHz, 16 GT/s, Mem bus: 4,800MHz, 350 W)
 Intel® Xeon® Platinum 8468V (48C, 2.4 GHz, TLC: 97.5 MB, Turbo: 2.90 GHz, 16 GT/s, Mem bus: 4,800MHz, 330 W)
 Intel® Xeon® Platinum 8470 (52C, 2.0 GHz, TLC: 105 MB, Turbo: 3.00 GHz, 16 GT/s, Mem bus: 4,800MHz, 350 W)
 Intel® Xeon® Platinum 8480+ (56C, 2.0 GHz, TLC: 105 MB, Turbo: 3.00 GHz, 16 GT/s, Mem bus: 4,800MHz, 350 W)
 Intel® Xeon® Platinum 8490H (60C, 1.9 GHz, TLC: 112.5 MB, Turbo: 2.90 GHz, 16 GT/s, Mem bus: 4,800MHz, 350 W)

Memory slots	32
Memory capacity (min. - max.)	64 GB - 2 TB

Standard memory modules

16 GB (1 module(s) 16 GB) DDR5, registered, ECC, 4,800 MT/s, PC5-4800, DIMM, 1Rx8
 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

Interfaces

USB 3.x ports	2
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Onboard or integrated Controller

SATA Controller	Intel® C741
LAN Controller	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 5.0 x16	6 x
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Drive bays

Storage drive bays	6x SAS/SATA/NVMe x 2.5-inch
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General system information

Number of fans	5
Fan configuration	5x FANs

Operating buttons	On/off switch
Status LEDs	Identification (blue)
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	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)	483 x 869 x 176 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 GX2560 M7
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

SSD SAS 2.5-inch	SSD SAS, 22.5Gb/s, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD
	SSD SAS, 22.5Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD
	SSD SAS, 12 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD
	SSD SAS, 12 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD

SSD SATA 2.5-inch	SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.5 DDPD
	SSD SATA, 6 Gb/s, 960 GB, Mixed-use, 2.5-inch, enterprise, 5.0 DDPD
	SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.5 DDPD
	SSD SATA, 6 Gb/s, 480 GB, Mixed-use, 2.5-inch, enterprise, 5.0 DDPD
	SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, 2.5-inch, enterprise, 1.5 DDPD
	SSD SATA, 6 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.6 DDPD
	SSD SATA, 6 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.2 DDPD
	SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, 2.5-inch, enterprise, 3.5 DDPD
	SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.5 DDPD
HDD 2.5-inch	SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, 2.5-inch, enterprise, 5.0 DDPD
	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
	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, 2.4 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 2 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical
SCSI / SAS Controller	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, hot-plug, 2.5-inch, enterprise
RAID Controller	Broadcom® PSAS CP600i LP SAS Ctrl. 12 Gbit/s PCIe 3.0 x8
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 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, based on LSI SAS3908
	Fujitsu PRAID EP 3258-16i LP, RAID 5/6 Ctrl., SAS/SATA 24 Gbit/s, NVMe-PCIe 16 GT/s, 16 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 8 GB, Optional FBU
	Fujitsu PRAID EP 3254-8i LP, RAID 5/6 Ctrl., SAS/SATA 24 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 4 GB, Optional FBU
	Broadcom® PRAID CP600i LP, RAID Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, No FBU support
	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	
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 GX2560 M7, 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 GX2560 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>



**Green
Policy
Innovation**

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