

Data Sheet

PRIMERGY GX2580 M8s GPU Server

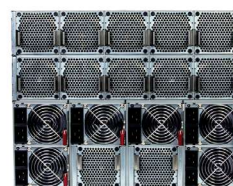
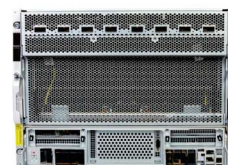
Extreme AI compute. Made in Japan.

PRIMERGY portfolio offers a fantastic blend of systems, solutions and expertise to guarantee maximum productivity, efficiency and flexibility, delivering confidence and reliability. PRIMERGY server 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, PRIMERGY provides a broad server portfolio consisting of expandable tower servers for remote and branch offices and versatile rack-mount 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 GX2580 M8s

The PRIMERGY GX2580 M8s is a GPU-accelerated 8U rack server delivering exceptional performance for AI training, generative AI, large language model and HPC workloads. Equipped with 8x NVIDIA HGX B300 GPUs connected through 5th Generation NVLink at 1.8TB/s bandwidth and NVSwitch technology, the system provides up to 2.3TB HBM3e GPU memory per system for the most demanding AI workloads at scale. Dual Intel® Xeon® 6700P processors with up to 86 cores per CPU and up to 8TB DDR5 memory across 32 DIMM slots deliver the balanced compute and memory resources required for enterprise AI deployments. Eight NVIDIA ConnectX-8 SuperNICs providing up to 800Gb/s network bandwidth enable the high-speed cluster connectivity essential for AI factory and supercluster environments. As part of the Made in Japan initiative, the GX2580 M8s is assembled at the Fujitsu Kasashima factory, providing hardware-level supply chain transparency for regulated industries and critical infrastructure operators. Integration

with Infrastructure Manager (ISM) and Fsas Technologies Product Related Services delivers centralized lifecycle management and enterprise-grade operational support across AI infrastructure environments.



Features & Benefits

Main Features	Benefits
Extreme AI Compute ■ Supports 8x NVIDIA HGX B300 GPUs connected via NVLink and NVSwitch technology, delivering up to 2.3 TB HBM3e GPU memory and exceptional performance for AI training, HPC and large-scale accelerated computing workloads.	■ Accelerate generative AI, scientific computing and large language model training with a purpose-built platform optimized for extreme GPU density and maximum throughput.
AI Factory Scalability ■ Supports high-bandwidth networking up to 800 Gb/s and advanced GPU interconnect technologies, enabling efficient scaling from standalone AI systems to enterprise AI clusters and AI factory environments.	■ Scale AI infrastructure efficiently while maintaining high GPU utilization and fast data movement across distributed AI workloads.
Enterprise AI Infrastructure ■ Dual Intel® Xeon® 6700P processors, large memory capacity and enterprise-class architecture provide a powerful foundation for AI, analytics and data-intensive applications.	■ Run demanding workloads on a balanced platform that combines accelerator performance with enterprise compute and memory resources.
Sovereign Infrastructure ■ Assembled at the Fujitsu Kasashima factory in Japan as part of the Made in Japan initiative, — the same factory responsible for K Computer and Fugaku, ranked #1 globally.	■ Establish a trusted AI infrastructure foundation with verifiable supply chain transparency — supporting digital sovereignty strategies, NIS2 compliance efforts and reduced dependency on opaque global technology supply chains.
Comprehensive Infrastructure Management ■ Integrated with Infrastructure Manager (ISM), PRIMERGY lifecycle services and enterprise support capabilities for simplified deployment and operations.	■ Benefit from centralized management, lifecycle support and enterprise-grade operational reliability across AI infrastructure environments.

Technical details

PRIMERGY GX2580 M8s

Base Unit	PRIMERGY GX2580 M8s
Housing Type	Rack
Product Type	Dual Socket Rack Server
Mainboard Type	X14DBG-LC
Processor Quantity and Type	2 x Intel® Xeon® 6700P processors
Processor	Intel® Xeon® processor 6787P (86C, 2.0 GHz, up to 3.8 GHz, 24 GT/s) Intel® Xeon® processor 6776P (64C, 2.3 GHz, up to 3.9 GHz, 24 GT/s) Intel® Xeon® processor 6767P (64C, 2.4 GHz, up to 3.9 GHz, 24 GT/s) Intel® Xeon® processor 6747P (48C, 2.7 GHz, up to 3.9 GHz, 24 GT/s)
Processor Notes	no mix of different processor types
Memory Slots	32
Memory Type	DIMM (DDR5)
Memory Capacity (min. - max.)	8 TB
Memory Protection	ECC
Memory notes	Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 8TB 6000MT/s ECC DDR5 RDIMM
Standard Memory Modules	2048 GB (16 module(s) 128 GB) DDR5, registered, ECC, 6,400 MT/s, PC5-51200, DIMM, 2Rx4 2048 GB (32 module(s) 64 GB) DDR5, registered, ECC, 6,400 MT/s, PC5-51200, DIMM, 2Rx4 3072 GB (32 module(s) 96 GB) DDR5, registered, ECC, 6,400 MT/s, PC5-51200, DIMM, 2Rx4 4096 GB (32 module(s) 128 GB) DDR5, registered, ECC, 6,400 MT/s, PC5-51200, DIMM, 2Rx4
USB 2.x Ports	1
USB 3.x Ports	1
Fast IDE/Ultra DMA-100	
LAN Controller	2 x 25 Gbit/s SFP28 2x 10GbE Onboard LAN / 8 OSFP 800 GbE LAN ports (NVIDIA ConnectX®-8 SuperNIC)
PCI-Express 5.0 x8	
PCI-Express 5.0 x16	2 x Full height
Slots (Base unit specific)	
Storage Drive Bays	up to 8x E1.S NVMe
Optional Accessible Drives	2x M.2 NVMe
Storage Drive Bays	8 x 2.5-inch
Number Of Fans	12
Fan Notes	Up to 12 heavy duty fans with optimal fan speed control
Certified or supported operating systems and virtualization software	SUSE® Linux Enterprise Server 15 VMware vSphere™ 8.0
Operating System Release Link	https://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	Remote Management Update Management Asset Management Online Diagnostics

Server Management	Infrastructure Manager (ISM) Mass Linux OS Installation Node Management Health Status Monitoring Update Management Integrate IT
Floor-stand (W x D x H)	
Rack (W x D x H)	449 x 950 x 356 mm
Height Unit Rack	8 U
Weight	119 kg
Floor-stand (W x D x H)	
Weight	119
Power Supply Configuration	6x 6600W Redundant (3 + 3) Titanium Level (96%) power supplies
Power Supply Notes	6x 6600W Redundant (3 + 3) Titanium Level (96%) power supplies
Product	PRIMERGY GX2580 M8s
Manufacturer	Fsas Technologies Inc. 13-2, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa, 211-0012, Japan

Components

Drives	PCIe-SSD, 960 GB, Read-Intensive, non hot plug, M.2 module, Flash drive, 1 DWPD, SED
	PCIe-SSD, 960 GB, Read-Intensive, non hot plug, M.2 module, Flash drive, 1 DWPD
	PCIe-SSD, 800 GB, Mixed-use, non hot plug, M.2 module, Flash drive, 3 DWPD
	PCIe-SSD, 480 GB, Read-Intensive, non hot plug, M.2 module, Flash drive, 1 DWPD, SED
	PCIe-SSD, 480 GB, Read-Intensive, non hot plug, M.2 module, Flash drive, 1 DWPD
	PCIe-SSD, 400 GB, Mixed-use, non hot plug, M.2 module, Flash drive, 3 DWPD
	PCIe-SSD, 3.8 TB, Read-Intensive, non hot plug, M.2 module, Flash drive, 1 DWPD
	PCIe-SSD, 1.92 TB, Read-Intensive, non hot plug, M.2 module, Flash drive, 1 DWPD, SED
	PCIe-SSD, 1.92 TB, Read-Intensive, non hot plug, M.2 module, Flash drive, 1 DWPD
	PCIe-SSD, 1.9 TB, Read-Intensive, non hot plug, M.2 module, Flash drive, 1 DWPD, SED
	PCIe-SSD, 1.9 TB, Read-Intensive, non hot plug, M.2 module, Flash drive, 1 DWPD
	PCIe-SSD SFF, 15.36 TB, Read-Intensive, hot-plug, E1.S, Flash drive, 1.0 DWPD, SED
	PCIe-SSD SFF, 15.36 TB, Read-Intensive, hot-plug, E1.S, Flash drive, 1.0 DWPD
	PCIe-SSD SFF, 15.3 TB, Read-Intensive, hot-plug, E1.S, Flash drive, 1.0 DWPD, SED
	PCIe-SSD SFF, 7.68 TB, Read-Intensive, hot-plug, E1.S, Flash drive, 1.0 DWPD, SED
	PCIe-SSD SFF, 7.68 TB, Read-Intensive, hot-plug, E1.S, Flash drive, 1.0 DWPD
	PCIe-SSD SFF, 3.84 TB, Read-Intensive, hot-plug, E1.S, Flash drive, 1.0 DWPD, SED
	PCIe-SSD SFF, 3.84 TB, Read-Intensive, hot-plug, E1.S, Flash drive, 1.0 DWPD
	PCIe-SSD SFF, 1.92 TB, Read-Intensive, hot-plug, E1.S, Flash drive, 1.0 DWPD, SED

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.

Notes

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 Fsas Technologies Inc. as a manufacturer does not make any policy prescriptions or advocacy statements regarding IT security best practices and/or general product operation.
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Warranty

Manufacturer warranty period	3 years
Warranty type	Onsite warranty
Warranty Terms & Conditions	www.fujitsu.com/support
Product Support - the perfect extension	
Recommended Service	24x7 Onsite Service with 4h Onsite Response Time
Service Lifecycle	at least 5 years after shipment, for details see https://support.eu.fsastech.com/
Service Weblink	http://www.fujitsu.com/emeia/products/product-support-services/

More information

Fsas Technologies products, solutions & services

In addition to PRIMERGY GX2580 M8s, Fsas Technologies provides a range of platform solutions. They combine reliable Fsas Technologies products with the best in services, know-how and worldwide partnerships.

Fsas Technologies Portfolio
Built on industry standards, Fsas Technologies offers a full portfolio of datacenter hardware, software and related services. This allows customers to select alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Data Center Solutions
<https://eu.fsastech.com/eu/>

More information

Learn more about PRIMERGY GX2580 M8s, please contact your Fsas Technologies sales representative or Business partner, or visit our website.
<https://eu.fsastech.com/eu/products-services/primergy-servers/primergy-gx2580-m8s/>

Fsas Technologies sustainability policy

Our product portfolio is developed with a commitment to environmental responsibility. For detailed product environmental information, please visit: <https://eu.fsastech.com/eu/about-us/sustainability/>

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Disclaimer

Please note that the data sheet reflects the technical specification with the maximum selection of components for the named system and not the detailed scope of delivery. The scope of delivery is defined by the selection of components at the time of ordering. The product was developed for normal business use.
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