

Data Sheet

FUJITSU Server PRIMERGY CX2570 M4 Multi-node Server

HPC/VDI optimized node for PRIMERGY CX400 M4

FUJITSU Server PRIMERGY will give you the servers you need to power any workload and changing business requirements. As business processes expand so does the need for applications. Each has its own resource footprint, so you need a way to optimize your computing to better serve your users. PRIMERGY systems will help you match your computing capabilities to your business priorities with our complete portfolio of expandable PRIMERGY tower servers for remote and branch offices, versatile rack-mount servers as well as hyper-converged scale-out servers. They convince by business proven quality with a wide range of innovations, highest efficiency cutting operational cost and complexity, provide more agility in daily operations, and integrate seamlessly to let help you concentrate on core business functions.

The PRIMERGY CX multi-node systems are the ideal basis for cloud, hyper-converged and high performance computing solutions. They provide data centers as well as branch offices with massive computing power while at the same time delivering best economics for server density, energy consumption, heat optimization and lower overall operating costs.

PRIMERGY CX2570 M4

The FUJITSU Server PRIMERGY CX2570 M4 is a compact half-width 2U server node that combines powerful processors and great memory capacity making it ideally suited for Virtualized Desktop Infrastructures (VDI) as well as ambitious High Performance and Technical Computing. Two server nodes can be embedded in the PRIMERGY CX400 M4 enclosure, using only 2U height in conventional standard datacenter racks. The PRIMERGY CX2570 M4 combines high-end computational and graphics performance with high energy efficiency. Each server node can be equipped with new Intel® Xeon® Processor Scalable Family with up to 28 cores and latest

DDR4 memory technology. Moreover, the node provides the option of using up to four optional NVIDIA® GPGPU's delivering the highest absolute performance for deep learning and many computationally intensive datacenter workloads. In addition to the basic onboard LAN, the node provides the option of using the DynamicLoM technology as well as an additional PCI Express® (PCIe) expansion slot.



Features & Benefits

Main Features	Benefits
<p>Maximize Efficiency</p> <ul style="list-style-type: none"> Two PRIMERGY CX2570 M4 server nodes, each with latest Intel® Xeon® Processor Scalable Family, can be smartly packaged into a condensed 2U rack enclosure. Half-width, two-socket server node for PRIMERGY CX400 M4 chassis enabling highest computing density. Intel® Xeon® Processor Scalable Family with up to 28 cores relying on Intel® UltraPath Interconnect for an increased data rate between the CPUs. Support for up to four high-end computational and graphic cards. <p>Shared infrastructure & easy serviceability</p> <ul style="list-style-type: none"> Server nodes share central cooling, hot-plug and redundant power supply units as well as storage drives within the 2U PRIMERGY CX400 M4 chassis. <p>Tailor-made IT infrastructure</p> <ul style="list-style-type: none"> Server nodes share central cooling, hot-plug and redundant power supply units as well as storage drives within the 2U PRIMERGY CX400 M4 chassis. Flexible storage capacity: Up to 6x SAS/SATA drives, thereof 2x PCIe SSDs (Liquid Cooling only). Basic onboard LAN, DynamicLoM technology and an additional PCIe Gen3 x16 slot for extended requirements. Optional liquid cooling solution helps to further reduce data center cooling costs and density. <p>Simplify Complexity</p> <ul style="list-style-type: none"> Fujitsu ServerView Suite including tools for installation and deployment, permanent status monitoring and control. BIOS, firmware and selected software are updated free of charge. iRMC S5 comes with new interactive web UI and conforms to Redfish providing unified API support for heterogeneous environment. 	<ul style="list-style-type: none"> Well suited for enterprise workloads, web serving, dedicated hosting, infrastructure virtualization as well as analytics. Ready for the future and data growth scenarios with the performance of two processors – marking the standard of tomorrow with an increase in computing power. Increased multi-tenancy and VM density for cloud application performance and parallelizable workloads. High bandwidth connections for networking and memory performance. <ul style="list-style-type: none"> Decreased energy consumption and lower investments. Each single server can be serviced without affecting the other nodes in the chassis. Redundancy for shared components provides maximum reliability. <ul style="list-style-type: none"> Decreased energy consumption and lower investments. Each single server can be serviced without affecting the other nodes in the chassis. Redundancy for shared components provides maximum reliability. Wide range of connectivity options guarantees the highest flexibility to integrate the server into existing infrastructures – now and in future without overhauling the existing infrastructure. Helps to reduce data center cooling costs by over 50% and allows for 2.5-5x higher density to realise even ambitious projects. <ul style="list-style-type: none"> Enable faster IT service by automating and simplifying infrastructure operations across compute, storage and networking with ServerView Infrastructure Software Manager. The comprehensive tools of the Fujitsu ServerView Suite ease the administrator's life. Providing increased security and server administrator productivity, iRMC S5 simplifies server management.

Technical details

PRIMERGY CX2570 M4

Base unit	PRIMERGY CX2570 M4 PCI air cooling	PRIMERGY CX2570 M4 SXM2 liquid cooling
Housing types	Air-cooled node	Liquid-cooled node
Product Type	Dual Socket 2U Server Node	Dual Socket 2U Server Node

Mainboard

Mainboard type	D 3854
Chipset	Intel® C624
Processor quantity and type	1 - 2 x Intel® Xeon® Processor Scalable Family

Intel® Xeon® Bronze Processor	Intel® Xeon® Bronze 3104 (6C nHT, 1.70 GHz, TLC: 8.25 MB, Turbo: 1.70 GHz, 9.6 GT/s, Mem bus: 2,133 MHz, 85 W, AVX Base 1.30 GHz, AVX Turbo 1.30 GHz)
	Intel® Xeon® Bronze 3106 (8C nHT, 1.70 GHz, TLC: 11 MB, Turbo: 1.70 GHz, 9.6 GT/s, Mem bus: 2,133 MHz, 85 W, AVX Base 1.30 GHz, AVX Turbo 1.30 GHz)

Intel® Xeon® Silver Processor	Intel® Xeon® Silver 4108 (8C, 1.80 GHz, TLC: 11 MB, Turbo: 2.10 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 85 W, AVX Base 1.30 GHz, AVX Turbo 1.30 GHz)
	Intel® Xeon® Silver 4110 (8C, 2.10 GHz, TLC: 11 MB, Turbo: 2.40 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 85 W, AVX Base 1.70 GHz, AVX Turbo 2.10 GHz)
	Intel® Xeon® Silver 4112 (4C, 2.60 GHz, TLC: 8.25 MB, Turbo: 2.90 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 85 W, AVX Base 2.20 GHz, AVX Turbo 2.60 GHz)
	Intel® Xeon® Silver 4114 (10C, 2.20 GHz, TLC: 13.75 MB, Turbo: 2.50 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 85 W, AVX Base 1.80 GHz, AVX Turbo 2.20 GHz)
	Intel® Xeon® Silver 4114T (10C, 2.20 GHz, TLC: 13.75 MB, Turbo: 2.50 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 85 W, AVX Base 1.80 GHz, AVX Turbo 2.20 GHz)
	Intel® Xeon® Silver 4116 (12C, 2.10 GHz, TLC: 16.5 MB, Turbo: 2.40 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 85 W, AVX Base 1.70 GHz, AVX Turbo 2.10 GHz)

Intel® Xeon® Gold Processor	Intel® Xeon® Gold 5115 (10C, 2.40 GHz, TLC: 13.75 MB, Turbo: 2.80 GHz, 10.4 GT/s, Mem bus: 2,400 MHz, 85 W, AVX Base 2.00 GHz, AVX Turbo 2.40 GHz)
	Intel® Xeon® Gold 5118 (12C, 2.30 GHz, TLC: 16.5 MB, Turbo: 2.70 GHz, 10.4 GT/s, Mem bus: 2,400 MHz, 105 W, AVX Base 1.90 GHz, AVX Turbo 2.30 GHz)
	Intel® Xeon® Gold 5119T (14C, 1.90 GHz, TLC: 19.25 MB, Turbo: 2.30 GHz, 10.4 GT/s, Mem bus: 2,400 MHz, 85 W, AVX Base 1.50 GHz, AVX Turbo 1.90 GHz)
	Intel® Xeon® Gold 5120 (14C, 2.20 GHz, TLC: 19.25 MB, Turbo: 2.60 GHz, 10.4 GT/s, Mem bus: 2,400 MHz, 105 W, AVX Base 1.80 GHz, AVX Turbo 2.20 GHz)
	Intel® Xeon® Gold 5122 (4C, 3.60 GHz, TLC: 16.5 MB, Turbo: 3.70 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 105 W, AVX Base 3.30 GHz, AVX Turbo 3.60 GHz)
	Intel® Xeon® Gold 6126 (12C, 2.60 GHz, TLC: 19.25 MB, Turbo: 3.30 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 125 W, AVX Base 2.20 GHz, AVX Turbo 2.90 GHz)
	Intel® Xeon® Gold 6128 (6C, 3.40 GHz, TLC: 19.25 MB, Turbo: 3.70 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 115 W, AVX Base 2.90 GHz, AVX Turbo 3.60 GHz)
	Intel® Xeon® Gold 6130 (16C, 2.10 GHz, TLC: 22 MB, Turbo: 2.80 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 125 W, AVX Base 1.70 GHz, AVX Turbo 2.40 GHz)
	Intel® Xeon® Gold 6132 (14C, 2.60 GHz, TLC: 19.25 MB, Turbo: 3.30 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 140 W, AVX Base 2.20 GHz, AVX Turbo 2.90 GHz)
	Intel® Xeon® Gold 6134 (8C, 3.20 GHz, TLC: 24.75 MB, Turbo: 3.70 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 130 W, AVX Base 2.70 GHz, AVX Turbo 3.40 GHz)
	Intel® Xeon® Gold 6134M (8C, 3.20 GHz, TLC: 24.75 MB, Turbo: 3.70 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 130 W, AVX Base 2.70 GHz, AVX Turbo 3.40 GHz)
	Intel® Xeon® Gold 6136 (12C, 3.00 GHz, TLC: 24.75 MB, Turbo: 3.30 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 150 W, AVX Base 2.60 GHz, AVX Turbo 3.30 GHz)
	Intel® Xeon® Gold 6138 (20C, 2.00 GHz, TLC: 27.5 MB, Turbo: 2.70 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 125 W, AVX Base 1.60 GHz, AVX Turbo 2.30 GHz)
	Intel® Xeon® Gold 6140 (18C, 2.30 GHz, TLC: 24.75 MB, Turbo: 3.00 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 140 W, AVX Base 1.90 GHz, AVX Turbo 2.60 GHz)
	Intel® Xeon® Gold 6140M (18C, 2.30 GHz, TLC: 24.75 MB, Turbo: 3.00 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 140 W, AVX Base 1.90 GHz, AVX Turbo 2.60 GHz)
	Intel® Xeon® Gold 6142 (16C, 2.60 GHz, TLC: 22 MB, Turbo: 3.30 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 150 W, AVX Base 2.20 GHz, AVX Turbo 2.90 GHz)
	Intel® Xeon® Gold 6142M (16C, 2.60 GHz, TLC: 22 MB, Turbo: 3.30 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 150 W, AVX Base 2.20 GHz, AVX Turbo 2.90 GHz)
	Intel® Xeon® Gold 6144 (8C, 3.50 GHz, TLC: 24.75 MB, Turbo: 4.10 GHz, 10.4 GT/s, Mem bus: 2,666 MHz, 150 W, AVX Base 2.80 GHz, AVX Turbo 3.50 GHz)
	Intel® Xeon® Gold 6148 (20C, 2.40 GHz, TLC: 27.5 MB, Turbo: 3.10 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 150 W, AVX Base 1.90 GHz, AVX Turbo 2.60 GHz)
	Intel® Xeon® Gold 6152 (22C, 2.10 GHz, TLC: 30.25 MB, Turbo: 2.80 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 140 W, AVX Base 1.70 GHz, AVX Turbo 2.40 GHz)
Intel® Xeon® Platinum Processor	Intel® Xeon® Platinum 8153 (16C, 2.00 GHz, TLC: 22 MB, Turbo: 2.30 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 125 W, AVX Base 1.60 GHz, AVX Turbo 2.00 GHz)
	Intel® Xeon® Platinum 8160 (24C, 2.10 GHz, TLC: 33 MB, Turbo: 2.80 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 150 W, AVX Base 1.80 GHz, AVX Turbo 2.50 GHz)
	Intel® Xeon® Platinum 8160M (24C, 2.10 GHz, TLC: 33 MB, Turbo: 2.80 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 150 W, AVX Base 1.80 GHz, AVX Turbo 2.50 GHz)
	Intel® Xeon® Platinum 8164 (26C, 2.00 GHz, TLC: 35.75 MB, Turbo: 2.70 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 150 W, AVX Base 1.60 GHz, AVX Turbo 2.30 GHz)
Memory slots	16 (8 DIMMs per CPU, 6 channels with 2 slots per channel)
Memory capacity (min. - max.)	8 GB - 2048 GB
Memory protection	Advanced ECC SDDC Rank sparing memory support Memory Mirroring support
Memory notes	Memory Mirroring with identical modules in both channel pairs of a bank, Rank sparing or Performance Mode with identical modules in all channels.

Standard memory modules	8 GB (1 module(s) 8 GB) DDR4, registered, ECC, 2,666 MT/s, PC4-2666, DIMM, 1Rx4 8 GB (1 module(s) 8 GB) DDR4, registered, ECC, 2,666 MT/s, PC4-2666, DIMM, 2Rx8 16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 2,666 MT/s, PC4-2666, DIMM, 1Rx4 16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 2,666 MT/s, PC4-2666, DIMM, 2Rx8 32 GB (1 module(s) 32 GB) DDR4, registered, ECC, 2,666 MT/s, PC4-2666, DIMM, 2Rx4 64 GB (1 module(s) 64 GB) DDR4 3DS, registered, ECC, 2,666 MT/s, PC4-2666, DIMM, 4Rx4 64 GB (1 module(s) 64 GB) DDR4, registered, ECC, 2,666 MT/s, PC4-2666, LRDIMM, 4Rx4 128 GB (1 module(s) 128 GB) DDR4 3DS, registered, ECC, 2,666 MT/s, PC4-2666, DIMM, 8Rx4
Upgrade notes	2x in PRIMERGY CX400 M4
Interfaces	
USB 3.0 ports	2 x USB 3.0 (rear) with high density connector
Graphics (15-pin)	1 x VGA (1x rear) with high density connector
LAN / Ethernet (RJ-45)	2 / 1x Gbit/s Ethernet + 1x service LAN Onboard
Management LAN (RJ45)	Management LAN traffic can be switched to shared onboard Gbit LAN port
Onboard or integrated Controller	
RAID controller	RAID 0/1 for internal drives
SATA Controller	Intel® C624, for up to 6x 2.5inch SATA HDD or SSD Raid 0/1
LAN Controller	Optional DynamicLoM 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+ Dynamic LOM can be installed in OCP slot as option
Remote management controller	IPMI 2.0 compatible Integrated Remote Management Controller (iRMC S5, 512 MB attached memory incl. graphics controller)
Trusted Platform Module (TPM)	optional TPM
Slots	
PCI-Express 3.0 x16	1 x for low profile and 1x for OCP Type1
Drive bays	
Storage drive bays	up to 6x 2.5-inch (in the PRIMERGY CX400 M4 chassis)
Storage drive bay configuration	Up to 6x 2.5" device can be installed in CX400 M4 and 2x M.2 device can be installed in CX2570 M4 node
General system information	
Fan configuration	Redundant and hot-plug fans part of CX400 M4 chassis
Operating panel	
Operating buttons	On/off switch ID button
Status LEDs	Power (green) System status (orange) LAN speed (green / yellow) LAN connection (green) Identification (blue)
BIOS	
BIOS features	UEFI compliant Legacy BIOS compatibility customer configuration option Secure boot support IPMI support BIOS settings save and restore Remote iSCSI boot support Remote PXE boot support

Operating Systems and Virtualization Software

Certified or supported operating systems and virtualization software	VMware vSphere™ 6.5
	VMware vSphere™ 6.7
	VMware vSphere™ 6.0
	SUSE® Linux Enterprise Server 12
	Red Hat® Enterprise Linux 7

Operating system notes

Operating system release link	http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473
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Server Management and Infrastructure Management

Standard	<ul style="list-style-type: none"> Infrastructure Manager (ISM) Essential <ul style="list-style-type: none"> Node Management Health status Monitoring and Control Capacity/Threshold Management Power Management Converged Management Auto Discovery Remote Management Update Management Logging and Auditing ServerView Suite (Control) <ul style="list-style-type: none"> ServerView Operations Manager (incl. PDA and ASR & R) ServerView Agents and CIM provider ServerView Agentless Management ServerView System Monitor SVOM- Event Manager ServerView RAID Manager SVOM- Threshold Manager Power Monitor (monitoring the Power Consumption) Power Management (iRMC) Storage Management (server) with SVOM/SV-RAID ServerView Suite (Maintain) <ul style="list-style-type: none"> iRMC S5 (Remote Management) Performance management (SVOM) Asset Management Primecollect Customer Self Service Online Diagnostics ServerView Suite (Integrate) <ul style="list-style-type: none"> ServerView Integration packs for MS System Center, VMware vCenter, VMware vRealize, Nagios, and HP SIM
	Option

Dimensions	
Dimensions (W x D x H)	174.3 x 580 x 82.4 mm
Weight	8.2kg for PCIe type and 11.2 kg for SXM2 type
Node size	2 U half wide
Dimensions / Weight (Base unit specific)	
Weight	8.2 kg 11.2 kg
Environment	
Operating ambient temperature	5 - 35 °C
Operating relative humidity	10 - 85 % (non condensing)
Temperature and humidity notes	Air cooling can support up to 165W CPU
Maximum altitude	3000 m
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
Compliance	
Global	CB RoHS (Substance limitations in accordance with global RoHS regulations) WEEE (Waste electrical and electronic equipment) IEC 60950
Europe	CE Class A * EN 60950 - 1 EN 50371 EN 55022 EN 61000-3-3 EN 55024
USA/Canada	UL/CSA ICES-003 / NMB-003 Class A
Japan	VCCI Class A
Taiwan	CNS 13436 CNS 13438 class A
Compliance link	https://sp.ts.fujitsu.com/sites/certificates
Compliance notes	There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request. * Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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, 2 TB, 7,200 rpm, 512e, 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 SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512e, 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, 900 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 900 GB, 10,000 rpm, 512e, 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, 450 GB, 15,000 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, SED
	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
	HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
Solid-State-Drive	SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 800 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.6 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 240 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.6 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 1.6 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 1.2 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD M.2 SATA, 6 Gb/s, 256 GB, non hot plug, enterprise, 0.13 DWPD (Drive Writes Per Day for 5 years)
	SSD M.2 SATA, 6 Gb/s, 128 GB, non hot plug, enterprise, 0.13 DWPD (Drive Writes Per Day for 5 years)
	SSD M.2 SATA, 6 Gb/s, 32 GB, non hot plug, enterprise
Solid-State-Drive	SSD SAS, 12 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD SAS, 12 Gb/s, 400 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years), SED
	SSD SAS, 12 Gb/s, 400 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years)
PCIe SSD & SATA DOM SSD	PCIe-SSD SFF, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.2 DWPD (Drive Writes Per Day for 5 years)
	PCIe-SSD SFF, 4 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 0.6 DWPD (Drive Writes Per Day for 5 years)
	PCIe-SSD SFF, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.1 DWPD (Drive Writes Per Day for 5 years)
	PCIe-SSD SFF, 2 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 0.6 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 DWPD (Drive Writes Per Day for 5 years)
SCSI / SAS Controller	LSI PSAS CP400e LP SAS Ctrl. 12 Gbit/s 8 ports ext. PCIe 3.0 x8
	Fujitsu PSAS CP400i SAS Ctrl. 12 Gbit/s 8 ports int. PCIe 3.0 x8
RAID Controller	RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, Fujitsu PRAID EP420e LP, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB Cache, Optional FBU, based on LSI SAS3108
	Fujitsu PRAID EP540e LP, RAID 5/6 Ctrl., SAS 12 Gbit/s, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 4 GB, Optional FBU based on LSI SAS3516
	Fujitsu PRAID EP420i, 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 SAS3108
	Fujitsu PRAID EP420i for SafeStore, 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 SAS3108
	Fujitsu PRAID EP420e LP for SafeStore, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB Cache, Optional FBU, based on LSI SAS3108
	Fujitsu PRAID EP400i, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 1 GB, Optional FBU based on LSI SAS3108
	Fujitsu PRAID CP400i, RAID Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 1E, 10, 5, 50, No FBU support

Fibre Channel controller	<p>Fibre Channel Host Bus Adapter 1 x 32 Gbit/s Cavium QLE2740 MMF LC-style</p> <p>Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Cavium QLE2742 MMF LC-style</p> <p>Fibre Channel Host Bus Adapter 1 x 32 Gbit/s Emulex LPe32000-M6-F MMF LC-style</p> <p>Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Emulex LPe32002-M6-F MMF LC-style</p> <p>Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Qlogic QLE2690 LC-style</p> <p>Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Qlogic QLE2692 LC-style</p> <p>Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Emulex LPe31000-M6-F MMF LC-style</p> <p>Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Emulex LPe31002-M6-F MMF LC-style</p>
Communication, Network	<p>Converged Network Adapter 2 x 10 Gbit/s PCIe 3.0 x8 SFP+ (Emulex)</p> <p>Ethernet Ctrl. 1 x 100 Gbit/s PCIe 3.0 x16 QSFP28 (Cavium)</p> <p>Ethernet Ctrl. 1 x 100 Gbit/s PCIe 3.0 x16 QSFP28 (Mellanox)</p> <p>Ethernet Ctrl. 2 x 10 Gbit/s ; 1 Gbit/s PCIe 3.0 x8 RJ45 (Intel®)</p> <p>Ethernet Ctrl. 2 x 10 Gbit/s / 25 Gbit/s PCIe 3.0 x8 SFP28 (Cavium)</p> <p>Ethernet Ctrl. 2 x 10 Gbit/s / 25 Gbit/s PCIe 3.0 x8 SFP28 (Intel®)</p> <p>Ethernet Ctrl. 2 x 10 Gbit/s / 25 Gbit/s PCIe 3.0 x8 SFP28 (Mellanox)</p> <p>Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 10Gbit/s Eth (RJ45) (Emulex)</p> <p>Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 SFP+ (Emulex)</p> <p>Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 SFP+ (Intel®)</p> <p>Ethernet Ctrl. 2 x 1 Gbit/s PCIe 2.1 x4 RJ45 (Intel®)</p> <p>Ethernet Ctrl. 2 x 40 Gbit/s PCIe 3.0 x16 QSFP (Mellanox)</p> <p>Ethernet Ctrl. 4 x 10 Gbit/s ; 1 Gbit/s PCIe 3.0 x8 RJ45 (Intel®)</p> <p>Ethernet Ctrl. 4 x 10 Gbit/s PCIe 3.0 x8 SFP+ (Intel®)</p> <p>Ethernet Ctrl. 4 x 1 Gbit/s PCIe 2.1 x4 RJ45 (Intel®)</p> <p>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)</p> <p>InfiniBand HCA 1 x 56 Gbit/s PCIe 3.0 x8 QSFP for the US market max. one IB HCA 56Gb controller can be installed (Mellanox)</p> <p>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)</p> <p>InfiniBand HCA 2 x 56 Gbit/s PCIe 3.0 x8 QSFP for the US market max. one IB HCA 56Gb controller can be installed (Mellanox)</p> <p>Interface modul for Dynamic LoM 2 x 10 Gbit/s RJ45 (Intel®)</p> <p>Interface modul for Dynamic LoM 2 x 10 Gbit/s SFP+ (Intel®)</p> <p>Interface modul for Dynamic LoM 4 x 10 Gbit/s SFP+ (Intel®)</p> <p>Interface modul for Dynamic LoM 4 x 1 Gbit/s RJ45 (Intel®)</p> <p>MPO x 40 Gbit/s ()</p> <p>Omni Path 1 x PCIe 3.0 x16 (Intel®)</p>
LAN controller notes	Dynamic LOM can be installed in OCP slot as option
Graphics add on cards	<p>NVIDIA® Tesla® M60, 4096 cores, PCIe 3.0 x16</p> <p>NVIDIA® Tesla® P40, 3840 cores, PCIe 3.0 x16</p> <p>NVIDIA® Tesla® P100, 5120 cores , PCIe 3.0 x16</p> <p>NVIDIA® Tesla® V100, 5120 cores , PCIe 3.0 x16</p> <p>NVIDIA® Quadro® M4000, 1344 cores, PCIe 3.0 x16, 4 x DisplayPort</p>
Warranty	
Warranty type	Onsite warranty
Product Support Services - the perfect extension	
Recommended Service	24x7, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.
Service Lifecycle	5 years after end of product life
Service Weblink	https://www.fujitsu.com/emeia/support/

More information

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