FUJITSU

Data Sheet FUJITSU Server PRIMERGY RX2540 M2 Dual socket 2U rack server

The data center standard without compromise

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, compact and scalable blade systems, 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.

FUJITSU Server PRIMERGY RX rack systems are versatile rack-optimized servers providing bestin-class performance and energy efficiency, and thus form the "standard" in each data center. PRIMERGY RX servers deliver more than 20 years of development and production know-how resulting in extremely low failure rates below market average, and lead to continuous operations and outstanding hardware availability.

PRIMERGY RX2540 M2

The FUJITSU Server PRIMERGY RX2540 M2 sets higher standards for usability, scalability and costefficiency. It is a 2U dual-socket rack server ideal for running enterprise applications, collaboration and messaging workloads as well as traditional databases. Plus, it substantially simplifies carrying out infrastructure-related tasks like server virtualization and consolidation. As one of the key innovations, versatile performance is guaranteed by a new generation of processors. The PRIMERGY RX2540 M2 can be equipped with two of the latest Intel[®] Xeon[®] E5-2600 v4 processors with up to 44 cores. Along with new DDR4 memory technology with up to 3 TB it boosts application performance to be able to cope with the increasing data growth and shortens time to business results. The modular design of the server offers excellent expandability with up to 24 disk drives, high storage density, DynamicLoM technology, up to 8 PCIe Gen 3 I/O expansion slots. The DynamicLoM technology offers users the ability to individually adapt the current server network as well as the ability to change and thus meet future requirements without giving the server infrastructure a general overhaul. The PRIMERGY RX2540 M2 comes with two redundant hot-plug power supply units, offering up to 96% energy efficiency. The Cool-safe® Advanced Thermal Design allows for operation in ambient temperatures of up to 40 °C/104 °F, optionally even up to 45°C/113°F. Both these features in line help to reduce operational expenses.











Features & Benefits

Main Features

Versatile Performance to cope with data growth

- Intel® Xeon® E5-2600 v4 product family with up to 22 cores per CPU
- Up to 3 TB DDR4 memory and up to 8 PCIe slots
- Expanded scalability of up to 24x 2.5-inch + 4 additional rear option 2.5-inch HDD or up to 12x 3.5-inch storage drives

Increased Energy Efficiency

- Fujitsu's Cool-safe® Advanced Thermal Design technology for a higher ambient temperature
- Redundant power supply units with 96% energy efficiency

Foundation for Trust and Security

- Fujitsu ServerView Suite including tools for installation and deployment, permanent status monitoring and control
- BIOS, firmware and selected software are updated free of charge

Innovations simplifying management and freeing up IT resources

- DynamicLoM to select the network connector of your choice -"plug&play-design" with 3 different port types, 3 different numbers of ports, and 2 different speeds and no need to upgrade to a new chip or new drivers.
- Customer-inspired design

Benefits

- 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 of up to 17% compared to the previous generation (measured under SPEC Throughput)
- DDR4 memory enables for higher bandwidth and lower consumption, optimized for data center tasks, enterprise applications but also collaboration & messaging solutions
- Flexible expandability and diverse options for storage devices permits for the integration of existing and new SSD and HDD as needed. Less today, more in future – or vice versa
- Not only "greener", also less expensive over time: Cost reduction due to lower energy consumption - both, air conditioning and the power supply itself
- Two hot-plug PSUs make it easy to maintain the running system and ensure a 99,997% uptime
- The comprehensive tools of the Fujitsu ServerView Suite eases the administrators life
- Lifecycle investment protection: Updates are very important in a fast-paced world, especially considering cyber crime
- DynamicLoM guarantees you the highest flexibility to integrate the server into your infrastructure – now and in future without overhauling the existing infrastructure
- Optimized for data centers and SMEs

Technical details

PRIMERGY RX2540 M2				
Base unit	PRIMERGY RX2540 M2 LFF	PRIMERGY RX2540 M2 LFF	PRIMERGY RX2540 M2 SFF	PRIMERGY RX2540 M2 SF
Housing types	Rack	Rack	Rack	Rack
Storage drive architecture	4x 3.5-inch SAS/SATA expandable	12x 3.5-inch SAS/SATA	8x 2.5-inch SAS/SATA expandable	24x 2.5-inch SAS/SATA
Power supply	Hot-plug	Hot-plug	Hot-plug	Hot-plug
Product Type	Dual Socket Rack Server	Dual Socket Rack Server	Dual Socket Rack Server	Dual Socket Rack Server
Mainboard				
Mainboard type	D3289-B			
Chipset	Intel [®] C612			
Processor quantity and type	1 - 2 x Intel® Xeon® processor E5-2600 v4 product family			

Processor	Intel® Xeon® processor E5-2603v4 (6C/6T, 1.70 GHz, TLC: 15 MB, Turbo: No, 6.4 GT/s, Mem bus: 1,866 MHz, 85 W, AVX Base 1.70 GHz)			
	Intel® Xeon® processor E5-2609v4 (8C/8T, 1.70 GHz, TLC: 20 MB, Turbo: No, 6.4 GT/s, Mem bus: 1,866 MHz, 85 W, AVX Base 1.70 GHz)			
	Intel® Xeon® processor E5-2620v4 (8C/16T, 2.10 GHz, TLC: 20 MB, Turbo: 2.30 GHz, 8.0 GT/s, Mem bus: 2,133 MHz, 85 W, AVX Base 1.80 GHz, AVX Turbo 2.30 GHz)			
	Intel® Xeon® processor E5-2623v4 (4C/8T, 2.60 GHz, TLC: 10 MB, Turbo: 2.90 GHz, 8.0 GT/s, Mem bus: 2,133 MHz, 85 W, AVX Base 2.20 GHz, AVX Turbo 2.90 GHz)			
	Intel® Xeon® processor E5-2630Lv4 (10C/20T, 1.80 GHz, TLC: 25 MB, Turbo: 2.00 GHz, 8.0 GT/s, Mem bus: 2,133 MHz, 55 W, AVX Base 1.30 GHz, AVX Turbo 2.00 GHz)			
	Intel® Xeon® processor E5-2630v4 (10C/20T, 2.20 GHz, TLC: 25 MB, Turbo: 2.40 GHz, 8.0 GT/s, Mem bus: 2,133 MHz, 85 W, AVX Base 1.80 GHz, AVX Turbo 2.40 GHz)			
	Intel® Xeon® processor E5-2637v4 (4C/8T, 3.50 GHz, TLC: 15 MB, Turbo: 3.60 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 135 W, AVX Base 3.20 GHz, AVX Turbo 3.60 GHz)			
	Intel® Xeon® processor E5-2640v4 (10C/20T, 2.40 GHz, TLC: 25 MB, Turbo: 2.60 GHz, 8.0 GT/s, Mem bus: 2,133 MHz, 90 W, AVX Base 2.00 GHz, AVX Turbo 2.60 GHz)			
	Intel® Xeon® processor E5-2643v4 (6C/12T, 3.40 GHz, TLC: 20 MB, Turbo: 3.60 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 135 W, AVX Base 2.80 GHz, AVX Turbo 3.60 GHz)			
	Intel® Xeon® processor E5-2650Lv4 (14C/28T, 1.70 GHz, TLC: 35 MB, Turbo: 2.00 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 65 W, AVX Base 1.20 GHz, AVX Turbo 1.70 GHz)			
	Intel® Xeon® processor E5-2650v4 (12C/24T, 2.20 GHz, TLC: 30 MB, Turbo: 2.50 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 105 W, AVX Base 1.80 GHz, AVX Turbo 2.50 GHz)			
	Intel® Xeon® processor E5-2660v4 (14C/28T, 2.00 GHz, TLC: 35 MB, Turbo: 2.40 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 105 W, AVX Base 1.70 GHz, AVX Turbo 2.40 GHz)			
	Intel® Xeon® processor E5-2667v4 (8C/16T, 3.20 GHz, TLC: 25 MB, Turbo: 3.50 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 135 W, AVX Base 2.60 GHz, AVX Turbo 3.50 GHz)			
	Intel® Xeon® processor E5-2680v4 (14C/28T, 2.40 GHz, TLC: 35 MB, Turbo: 2.90 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 120 W, AVX Base 1.90 GHz, AVX Turbo 2.80 GHz)			
	Intel® Xeon® processor E5-2683v4 (16C/32T, 2.10 GHz, TLC: 40 MB, Turbo: 2.60 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 120 W, AVX Base 1.70 GHz, AVX Turbo 2.50 GHz)			
	Intel® Xeon® processor E5-2690v4 (14C/28T, 2.60 GHz, TLC: 35 MB, Turbo: 3.20 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 135 W, AVX Base 2.10 GHz, AVX Turbo 2.90 GHz)			
	Intel® Xeon® processor E5-2695v4 (18C/36T, 2.10 GHz, TLC: 45 MB, Turbo: 2.60 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 120 W, AVX Base 1.70 GHz, AVX Turbo 2.40 GHz)			
	Intel® Xeon® processor E5-2697Av4 (16C/32T, 2.60 GHz, TLC: 40 MB, Turbo: 3.10 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 145 W, AVX Base 2.20 GHz, AVX Turbo 2.90 GHz)			
	Intel® Xeon® processor E5-2697v4 (18C/36T, 2.30 GHz, TLC: 45 MB, Turbo: 2.80 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 145 W, AVX Base 2.00 GHz, AVX Turbo 2.70 GHz)			
	Intel® Xeon® processor E5-2698v4 (20C/40T, 2.20 GHz, TLC: 50 MB, Turbo: 2.70 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 135 W, AVX Base 1.80 GHz, AVX Turbo 2.60 GHz)			
	Intel® Xeon® processor E5-2699Av4 (22C/44T, 2.40 GHz, TLC: 55 MB, Turbo: 3.00 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 145 W, AVX Base 2.00 GHz, AVX Turbo 2.80 GHz)			
	Intel® Xeon® processor E5-2699v4 (22C/44T, 2.20 GHz, TLC: 55 MB, Turbo: 2.80 GHz, 9.6 GT/s, Mem bus: 2,400 MHz, 145 W, AVX Base 1.80 GHz, AVX Turbo 2.60 GHz)			
Memory slots	24 (12 DIMMs per CPU, 4 channels with 3 slots per channel)			
Memory slot type	DIMM (DDR4)			
Memory capacity (min.	- max.) 8 GB - 3.072 GB			
Memory protection	Advanced ECC Memory Scrubbing SDDC Pank sparing memory support			
	Rank sparing memory support Memory Mirroring support			
Memory notes	Memory Mirroring with identical modules in both channel pairs of a bank (4 modules per bank), Rank sparing or Performance Mode with identical modules in all four channels (4 modules per bank).			

Fan configuration	redundant / hot-plug			
Number of fans	5			
General system information				
Optional accessible drives	ODD 5.25" possible	ODD 5.25" not possible	ODD 5.25" possible	ODD 5.25" not possible
Accessible drive bays	1 x 5.25/0.4-inch for CD-RW/ DVD		1 x 5.25/1.6-inch for backup devices 1 x 5.25/0.4-inch for CD-RW/ DVD	
Storage drive bays	8 x 3.5-inch hot-plug SAS/ SATA	12 x 3.5-inch hot-plug SAS/ SATA	16 x 2.5-inch hot-plug SAS/ SATA	24 x 2.5-inch hot-plug SAS/ SATA
Drive bays (Base unit specific)				
Optional hard disk bays	4x 2.5-inch hot-plug SAS/SA	A rear option		
Notes accessible drives	All possible options describe	d in relevant system configura	ator.	
Accessible drive bays	1 x 5.25/0.4-inch for CD-RW/	•		
Storage drive bays	3.5-inch or 2.5-inch hot-plug	j SAS/SATA		
Drive bays				
Slot Notes	First PCIe Gen3 x8 slot may be occupied with a Modular RAID controller if configured. Important: 3 PCIe slots are supported with the first processor. 6 PCIe slots are supported with two processors. PCIe riser card options can expand number of slots by two (max. 8 in total) and support max. 4 full height slots. Possible slot length described in relevant system configurator.			
PCI-Express 3.0 x16	3 x Low profile (2nd processor required for slot 5 and 6)			
PCI-Express 3.0 x8	3 x Low profile (2nd process	or required for slot 4)		
Slots				
Trusted Platform Module (TPM)	•	0 module; TCG compliant (opt	tion)	
Remote management controller	PXE-Boot via LAN from PXE server, iSCSI / FCoE boot (also diskless). Integrated Remote Management Controller (iRMC S4, 256 MB attached memory incl. graphics controller) IPMI 2.0 compatible			
	All supported features are de	escribed in relevant system co		
LAN Controller	DynamicLoM based on Emul			
SATA Controller	Intel® C612, 1 x SATA channe	•		
Onboard or integrated Controller RAID controller	All bardware storage control	ler options are described und		
			ard LAN controller port, speed a	and connector is related to
Management LAN (RJ45)	· _ · _ · _ · _ · _ · _ · _ · _ ·	LAN port for iRMC S4 (10/100		
Serial 1 (9-pin)	· · ·	usable for iRMC or system or	shared	
Graphics (15-pin)	2 x VGA (thereof 1x front opt	•		
USB 3.0 ports		r, 1x internal for backup devic		
Interfaces USB 2.0 ports	5 x USB 2.0 (2x rear. 1x fron	t external, 1x USB stick, 1x UF	M internal boot device)	
1-1-5 5	128 GB (1 module(s) 128 GB	3) DDR4, registered, ECC, 2,40	0 MHz, PC4-2400T-L, LRDIMM,	8Kx4
		2	MHz, PC4-2400T-L, LRDIMM, 4F	
		2	400 MHz, PC4-2400T-R, DIMM,	
		,	MHz, PC4-2400T-R, DIMM, 2Rx4	
			MHz, PC4-2400T-L, LRDIMM, 4F	
			MHz, PC4-2400T-R, DIMM, 2Rx8	
		2	MHz, PC4-2400T-R, DIMM, 2Rx4	
			MHz, PC4-2400T-R, DIMM, 1Rx4	
		R4, registered, ECC, 2,400 MH		
Nemory options	8 GB (1 module(s) 8 GB) DDR4, registered, ECC, 2,400 MHz, PC4-2400T-R, DIMM, 1Rx4			

Operating panel	
Operating buttons	On/off switch Reset button NMI button ID button
Status LEDs	System status (orange / yellow) Identification (blue) Hard disks access (green) Power (amber / green) At system rear side: System status (orange / yellow) Identification (blue) LAN connection (green) LAN speed (green / yellow)
BIOS	
BIOS features	UEFI compliant Legacy BIOS compatibility customer configuration option Secure boot support ROM based setup utility GPT support for boot drives larger than 2.2 TB Memory Redundancy support (Mirroring, Sparing) IPMI support Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Linux versions Local and remote update via ServerView Update Manager IPv4/IPv6 remote PXE & iSCSI boot support

Operating Systems and Virtualization	Software
Certified or supported operating	Microsoft® Hyper-V Server 2016
systems and virtualization software	Microsoft® Windows Server® 2016 Datacenter
	Microsoft® Windows Server® 2016 Standard
	Microsoft® Windows Server® 2016 Essentials
	Microsoft® Windows Storage Server 2016 Standard
	Microsoft® Hyper-V Server 2012 R2
	Microsoft® Windows Server® 2012 R2 Datacenter
	Microsoft® Windows Server® 2012 R2 Standard
	Microsoft® Windows Server® 2012 R2 Essentials
	Microsoft® Windows Storage Server 2012 R2 Standard
	Microsoft® Hyper-V Server 2012
	Microsoft® Windows Server® 2012 Datacenter
	Microsoft® Windows Server® 2012 Standard
	Microsoft® Windows Server® 2012 Essentials
	Microsoft® Windows Storage Server 2012 Standard
	Microsoft® Hyper-V™ Server 2008 R2
	Microsoft® Windows Server® 2008 R2 Datacenter
	Microsoft® Windows Server® 2008 R2 Enterprise Microsoft® Windows Server® 2008 R2 Standard
	VMware vSphere™ 6.5
	VMware vSphere™ 6.0
	VMware vSphere™ 5.5
	SUSE® Linux Enterprise Server 12
	SUSE® Linux Enterprise Server 11
	Red Hat® Enterprise Linux 7
	Red Hat® Enterprise Linux 6
	Citrix® XenServer®
	Oracle® Linux 7
	Oracle® Linux 6
	Oracle® VM 3
	Univention Corporate Server 4
Operating system release link	http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473
Operating system notes	Support of other Linux derivatives on demand
Server Management	
Standard	ServerView Suite - Deploy
	Installation Manager
	Scripting Toolkit
	ServerView Suite - Control
	Operations Manager incl. PDA and ASR & R
	Agents and CIM Providers / Agentless Service System Monitor
	RAID Manager
	Capacity Management
	Power Management
	Storage Support
	ServerView Suite - Maintain
	Remote Management (iRMC in combination with Intel® Node Manager)
	Update Management (BIOS, Firmware, Windows Drivers, Agents and CIM Providers) Performance Measurement
	Asset Management
	Online Diagnostics
	ServerView Suite - Integrate
	Integration packs for Microsoft System Center, VMware vCenter, VMware vRealize, Nagios, and HP SIM
	Deployment tools and others

Server Management	
Option	ServerView embedded Lifecycle Management (eLCM)
•	Lifecycle management
	ServerView Suite - Maintain iRMC Advanced Pack incl. Advanced Video Redirection (AVR), video capturing and Virtual Media
	ServerView Suite - Dynamize
	Virtual-IO Manager (VIOM)
Server Management notes	Regarding dependencies for ServerView Suite software products see dedicated product data sheets.
Dimensions / Weight	
Rack (W x D x H)	482.4 mm (Bezel) / 445 mm (Body) x 770 x 86.6 mm
Mounting Depth Rack	740 mm
Height Unit Rack	2 U
19" rackmount	Yes
Weight	up to 25 kg
Weight notes	Actual weight may vary depending on configuration
Rack integration kit	Rack integration kit as option
Environment	
Operating ambient temperature	5 - 45 °C (41 - 113 °F)
Operating temperature note	Cool-safe® Advanced Thermal Design (above 35 °C or below 10 °C) depending on configuration. For detailed
	information see relevant system configurator. Ambient temperature limited to max. 28° C for Performance Storage Model.
Operating relative humidity	10 - 85 % (non condensing)
Operating environment	FTS 04230 – Guideline for Data Center (installation specification)
Operating environment link	http://docs.ts.fujitsu.com/dl.aspx?id=589915e9-1bf8-40f7-8ba4-7cac9371f2f0
Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
Sound pressure (LpAm)	Minimum noise : 33 dB(A) (idle) / 33 dB(A) (operating)
p (-p)	Typical noise : 44 dB(A) (idle) / 44 dB(A) (operating)
Sound power (LWAd; 1B = 10dB)	Minimum noise : 5.6 B (idle) / 5.6 B (operating) Typical noise : 7.5 B (idle) / 7.5 B (operating)
Noise notes	Noise emissions depends on operation modes, system configuration and ambient temperature. Typical hardware configuration which is the base for measurement according to ISO 7779: 2x PSU 450W. 2x CPU Xeon E5-2630 v4 2.20 GHz, 4x RAM 8GB, HDD 2x 500GB SATA
Electrical values	
Power supply configuration	1 x hot-plug power supply or 2x hot-plug power supply for redundancy
Hot-plug power supply redundancy	Optional
Active power (max. configuration)	715 W
Apparent power (max. configuration)	753 VA
Heat emission (max. configuration)	2574.0 kJ/h (2439.7 BTU/h)
Rated current max.	7.68 A (100 V) / 2.98 A (240 V)
Active power note	To estimate the power consumption of different configurations use the Power Calculator of the System Architect: http://configurator.ts.fujitsu.com/public/
Power supply	450W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz
	800W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz 800W hot-plug, 96% (Titanium efficiency), 200-240V, 50 / 60Hz 1200W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz; 110V range: 1000W, less than 110V: 900W 800W hot-plug, 92% (equivalent to Gold efficiency) –48V DC
Power supply notes	Power Safeguard adapts system performance in case the power requirements exceeds supply limits. 196% Titanium Power supply unit is only released for 200-240V
Compliance	
Global	CB RoHS (Substance limitations in accordance with global RoHS regulations) WEEE (Waste electrical and electronical equipment)
Germany	CS 20
Europe	CE

Compliance	
USA/Canada	CSAc/us FCC Class A
Japan	VCCI:V3 Class A + JIS 61000-3-2
South Korea	KC (planned)
China	000
Australia/New Zealand	C-Tick (planned)
Taiwan	BSMI
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 use may be required to take adequate measures.

Components

Backup Drives	LTO5HH Ultrium, 1,500 GB, 140 MB/s, half height, SAS 6Gb/s	
	LTO6HH Ultrium, 2,500 GB, 160 MB/s, half height, SAS 6Gb/s LTO7HH Ultrium, 2,500 GB, 300 MB/s, half height, SAS 6Gb/s	
	RDX Drive, 320 GB, 500 GB, 1 TB , 25 MB/s, half height, USB 3.0	
Optical drives	Blu-ray Disc™ Triple Writer, (6x BD-RW, 8x DVD, 24x CD), ultraslim, SATA I	
	DVD Super Multi ultra slim , (8x DVD; 24x CD), ultraslim, SATA I	
Hard disk drives	HDD SATA, 6 Gb/s, 10 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical	
	HDD SATA, 6 Gb/s, 8 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical	
	HDD SATA, 6 Gb/s, 6 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical	
	HDD SATA, 6 Gb/s, 4 TB, 7,200 rpm, 512n, hot-plug, 3.5-inch, business critical	
	HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512n, hot-plug, 3.5-inch, business critical	
	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, 3.5-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

drives	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, hot-plug, 3.5-inch, enterprise
	HDD SAS, 12 Gb/s, 600 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED
	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, 3.5-inch, enterprise
	HDD SAS, 12 Gb/s, 600 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 600 GB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 600 GB , 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED
	HDD SAS, 12 Gb/s, 450 GB, 15,000 rpm, hot-plug, 3.5-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, hot-plug, 3.5-inch, enterprise
	HDD SAS, 12 Gb/s, 300 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED
	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, 3.5-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, 300 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 10 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, enterprise, SED
	HDD SAS, 12 Gb/s, 10 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
	HDD SAS, 12 Gb/s, 8 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
	HDD SAS, 12 Gb/s, 6 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, enterprise, SED
	HDD SAS, 12 Gb/s, 6 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
	HDD SAS, 12 Gb/s, 4 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
	HDD SAS, 12 Gb/s, 2 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical
	HDD SAS, 12 Gb/s, 2 TB , 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical
	HDD SAS, 12 Gb/s, 2 TB , 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical
	HDD SAS, 12 Gb/s, 1.8 TB, 10,000 rpm, 512e, hot-plug, 3.5-inch, enterprise
	HDD SAS, 12 Gb/s, 1.8 TB, 10,000 rpm, 512e, 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, 512n, hot-plug, 3.5-inch, enterprise
	HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
	HDD SAS, 12 Gb/s, 1.2 TB , 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED
	HDD SAS, 12 Gb/s, 1 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical
	HDD SAS, 12 Gb/s, 1 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical
	HDD SAS, 6 Gb/s, 4 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SAS, 6 Gb/s, 2 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SAS, 6 Gb/s, 1 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SAS, 6 Gb/s, 1 TB, 7,200 rpm, hot-plug, 2.5-inch, business critical

Solid-State-Drive	SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)
	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, 3.5-inch, enterprise, 1 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, 800 GB, Read-Intensive Endurance, hot-plug, 3.5-inch, enterprise, 0.3 DWPD (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 800 GB, hot-plug, 2.5-inch, enterprise, 0.3 DWPD (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 480 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, 3.5-inch, enterprise, 3.6 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 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, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
	SSD SATA, 6 Gb/s, 240 GB, Mixed-use, hot-plug, 3.5-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, 240 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 240 GB, hot-plug, 3.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 120 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 120 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)
	SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 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, 3.5-inch, enterprise, 1 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, 3.5-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)

Solid-State-Drive	SSD SAS, 12 Gb/s, 960 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)	
Sona State Brite	SSD SAS, 12 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)	
	SSD SAS, 12 Gb/s, 960 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)	
	SSD SAS, 12 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)	
	SSD SAS, 12 Gb/s, 800 GB, Write-Intensive, hot-plug, 3.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years)	
	SSD SAS, 12 Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years)	
	SED	
	SSD SAS, 12 Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years)	
	SSD SAS, 12 Gb/s, 480 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)	
	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, 3.5-inch, enterprise, 10 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)	
	SSD SAS, 12 Gb/s, 400 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)	
	SSD SAS, 12 Gb/s, 400 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)	
	SSD SAS, 12 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)	
	SSD SAS, 12 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)	
	SSD SAS, 12 Gb/s, 3.84 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)	
	SSD SAS, 12 Gb/s, 3.84 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)	
	SSD SAS, 12 Gb/s, 3.2 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 2.3 DWPD (Drive Writes Per Day for 5 years)	
	SSD SAS, 12 Gb/s, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 2.3 DWPD (Drive Writes Per Day for 5 years)	
	SSD SAS, 12 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)	
	SSD SAS, 12 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)	
	SSD SAS, 12 Gb/s, 1.6 TB, Write-Intensive, hot-plug, 3.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years)	
	SSD SAS, 12 Gb/s, 1.6 TB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years), SED	
	SSD SAS, 12 Gb/s, 1.6 TB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years)	
	SSD SAS, 12 Gb/s, 1.6 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)	
	SSD SAS, 12 Gb/s, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)	
Cle SSD & SATA DOM SSD	DOM SATA, 6 Gb/s, 128 GB, non hot plug, enterprise, 0.13 DWPD (Drive Writes Per Day for 5 years)	
	DOM SATA, 6 Gb/s, 64 GB, non hot plug, enterprise, 384 TBW (based on JEDEC 218)	
	DOM SATA, 6 Gb/s, 64 GB, non hot plug, enterprise, 0.14 DWPD (Drive Writes Per Day for 5 years)	
CSI / 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. PCle 3.0 x8	
	Fujitsu PSAS CP400e FH SAS Ctrl. 12 Gbit/s 8 ports ext. PCle 3.0 x8	
RAID Controller	Fujitsu PRAID EP440i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 4 GB, Optional FBU based on LSI SAS3108	
	Fujitsu PRAID EP440i LP TFM SafeStore, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 4 GB, Optional FBU based on LSI SAS3108	
	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 EP400i, RAID 5/6 Ctrl., SAS/SATA/PCle-NVMe 12 Gbit/s, 16 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	Fibre Channel Host Bus Adapter 1 x 8 Gbit/s Qlogic QLE2560 MMF LC-style
	Fibre Channel Host Bus Adapter 2 x 8 Gbit/s Qlogic QLE2562 MMF LC-style
	Fibre Channel Host Bus Adapter 1 x 8 Gbit/s Emulex LPe1250 MMF LC-style
	Fibre Channel Host Bus Adapter 2 x 8 Gbit/s Emulex LPe12002 MMF LC-style
	Fibre Channel Host Bus Adapter 1 x 32 Gbit/s Cavium QLE2740 MMF LC-style
	Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Cavium QLE2742 MMF LC-style
	Fibre Channel Host Bus Adapter 1 x 32 Gbit/s Emulex LPe32000-M6-F MMF LC-style
	Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Emulex LPe32002-M6-F MMF LC-style
	Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Emulex LPe16000B LC-style
	Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Emulex LPe16002B LC-style
	Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Qlogic QLE2670 LC-style
	Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Qlogic QLE2672 LC-style
	Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Qlogic QLE2690 LC-style
	Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Qlogic QLE2692 LC-style
	Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Emulex LPe31000-M6-F MMF LC-style
	Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Emulex LPe31002-M6-F MMF LC-style
Communication, Network	Converged Network Adapter 1 x 40 Gbit/s PCIe 3.0 x8 QSFP+ (Emulex)
communication, network	Converged Network Adapter 1 x 40 Gbit/s PCIe 3.0 x8 QSFP+ for DynamicLoM (Emulex)
	Converged Network Adapter 1 x 40 doites Pcle 3.0 x8 GPF+ (6 DynamicLow (Endlex)
	Ethernet Ctrl. 1 x 1 Gbit/s PCle 2.1 x1 RJ45 (Intel®)
	Ethernet Ctrl. 2 x 10 Gbit/s PCle 2.0 x8 SFP+ (Fujitsu)
	Ethernet Ctrl. 2 x 10 Gbit/s PCle 2.1 x8 RJ45 (Intel®)
	Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 10Gbit/s Eth (RJ45) (Emulex)
	Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 RJ45 (Intel®)
	Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 SFP+ (Emulex)
	Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 SFP+ (Intel®)
	Ethernet Ctrl. 2 x 1 Gbit/s PCle 2.1 x4 RJ45 (Intel®)
	Ethernet Ctrl. 4 x 1 Gbit/s PCle 2.1 x4 RJ45 (Intel®)
	InfiniBand HCA 1 x 100 Gbit/s PCIe 3.0 x16 QSFP (Mellanox)
	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)
	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 56 Gbit/s PCIe 3.0 x8 QSFP for the US market max. one IB HCA 56Gb controller can be installed (Mellanox)
	Interface modul for Dynamic LoM 2 x 10 Gbit/s RJ45 (Emulex)
	Interface modul for Dynamic LoM 2 x 10 Gbit/s SFP+ (Emulex)
	Interface modul for Dynamic LoM 2 x 1 Gbit/s RJ45 (Emulex)
	Interface modul for Dynamic LoM 4 x 1 Gbit/s RJ45 (Emulex)
	Omni Path 1 x PCle 3.0 x16 (Intel®)
LAN controller notes	PLAN AP 1x1Gbit Cu Intel I210-T1 LP (Copper), available on special release with order number S26361-F3852-E201
Graphics add on cards	NVIDIA® Quadro® M4000, 1344 cores, PCIe 3.0 x16, 4 x DisplayPort
Graphics add on cards (optional)	NVIDIA® Tesla® M60, 4,096 cores, PCIe 3.0 x16
GPU computing card	NVIDIA® Tesla® P100, PCIe 3.0 x16
Rack infrastructure	Rackmount kit full extraction (820mm), tool less mounting, length variable 559-914mm
	Cable Management for 19-inch DataCenter / PRIMECENTER Racks
	Cable Arm 2U for PRIMECENTER- and 3rd-party racks
Warranty	
Warranty period	3 years
including period	

Warranty	
Warranty type	Onsite warranty
Warranty Terms & Conditions	www.fujitsu.com/support
Product Related Services - the perfe	ct extension
Support Pack Options	X - Globally available in major business areas:
	9x5, Next Business Day Onsite Response Time
	9x5, 4h Onsite Response Time
	24x7, 4h Onsite Response Time
Recommended Service	X - 24x7, Onsite Response Time: 4h - For locations outside of EMEIA please contact your local Fujitsu partner.
Service Lifecycle	5 years after end of product life
Service Weblink	http://www.fujitsu.com/fts/products/product-support-services/

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