

Data Sheet

PRIMERGY TX1330 M5 Tower Server

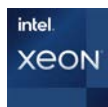
Highly expandable new-generation server for typical SME business requirements

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, versatile rack-mount servers and density-optimized multi-node servers. 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 TX1330 M5

The PRIMERGY Server TX1330 M5 is an advanced technology server, highly expandable and robust, designed to meet classic small and medium-sized enterprise requirements across industries. It features the latest Intel® Xeon® E-2300 product family processors plus up to 128GB DDR4 memory at 3,200 MT/s to boost performance across standard business workloads such as file/print, web, ERP/CRM, email, business specific applications. The server has high levels of secure expandability for consolidating and managing large datasets, with up to 24x 2.5-inch hot-plug storage devices (3.5-inch drive configurations are also available) along with 4x low latency PCIe SSD devices (up to 16x 2.5-inch devices can be fielded alongside), advanced RAID controllers (up to 4/8GB cache) and data back-up options. Up to 4 PCIe slots (Gen4/3) are available to add RAID cards, networking options (such as 10/25 Gb controllers). High availability features such as high-efficiency redundant power supplies plus redundant fans ease operator concerns and provide investment protection. The aesthetic

design makes it suitable for deployment in public areas such as showrooms, retail premises or offices. M.2 modules for efficient OS installation along with dual microSD capability for VMware ESXi, plus USB 3.2 Gen 2 ports enhance the server's functionality. Furthermore, advanced remote server management and centralized infrastructure management are available via iRMC S6, and the Fujitsu Infrastructure Management Suite (ISM) respectively, with an ISM Essential license available free-of-charge and ISM Advanced available as an option.



Features & Benefits

Main Features	Benefits
<p>HIGHLY EXPANDABLE AND PERFORMANCE ORIENTED</p> <ul style="list-style-type: none"> Enhanced compute/memory with the latest Intel® Xeon® E-2300 product family processors, plus affordable Pentium® and up to 128GB DDR4 memory (4 DIMMs) at 3,200 MT/s. High storage and networking expandability with the server supporting up to 4x PCIe-SSD devices plus either 8x3.5-inch storage devices or 16x2.5-inch devices. Maximal capacity with standard drives is up to 12x3.5-inch storage devices, or up to 24x2.5-inch devices. It also supports Fujitsu's powerful RAID controllers (including SAS 3.0, 4/8 GB cache). Backup options include LTO and RDX. Security optimization includes TPM 2.0 support plus Fujitsu's secure 3-way lock for server access. Server also features redundant (2x1GbE) LAN as standard plus advanced networking options (10/25Gb Ethernet, Fiber Channel controllers). 	<ul style="list-style-type: none"> Powerful compute and memory for excellent performance across both individual and virtualized, standard business workloads. Furthermore, the design is ideal for securely managing large datasets with its substantial storage (24x 2.5-inch, or 12x 3.5-inch devices) advanced RAID, dual Gigabit LAN (plus advanced options) and security features (3-way lock, TPM 2.0).
<p>TOP OF THE LINE UPGRADEABILITY</p> <ul style="list-style-type: none"> 4x PCIe Gen 4/3 slots split between 2x PCIe Gen4 x8 and 2x PCIe Gen3 x4. The two PCIe Gen4 x8 slots can even be converted into a single PCIe Gen4 x16 slot. Plus, deployment flexibility via rack upgrade capability. Supports 2x M.2 modules, Dual microSD modules for efficient boot requirements. New 3.2 Gen2 USB ports (3x 3.2 Gen2 plus 1x 3.2 Gen1, 4x 2.0) for newer generation peripheral devices. 	<ul style="list-style-type: none"> Grow with the business with 4x PCIe Gen4/3 slots (2x Gen4) for upgrades (RAID, networking and graphics) while a rack upgrade kit enables scale-out deployment. M.2, dual MicroSD devices enable effective software boot, while new high data-rate USB 3.2 Gen2 USB ports enhance connectivity.
<p>KEEP PACE WITH EXPANDING USAGE SCENARIOS</p> <ul style="list-style-type: none"> Good for both the environment and your business, high efficiency, hot-plug power supplies (94% efficiency) boost reliability for your critical business operations. Furthermore, optimized air flow and Fujitsu's Cool-safe® Advanced Thermal Design technology offer expanded deployment capability. 	<ul style="list-style-type: none"> New high efficiency, redundant power supplies offer enhanced reliability and lower energy expenditure despite heavy usage scenarios. Cool-safe® Advanced Thermal Design technology allows for an expanded range of operation and reduced noise, enabling deployment in public areas.
<p>EASY MANAGEMENT AND SERVICEABILITY</p> <ul style="list-style-type: none"> A comprehensive software management suite with the iRMC S6 and the Fujitsu Infrastructure Manager (ISM) Suite, plus server serviceability features reduce the IT administrator's burden. The new iRMC S6 improves remote access of your servers round the clock, while ISM offers seamless, holistic, and centralized management of your IT infrastructure. Two versions of ISM are available. A free entry-level version, ISM Essential, provides essential monitoring and firmware update of all supported devices, including servers, storage and network switches. The ISM Advanced option is a powerful, fully featured version offering comprehensive infrastructure management capabilities such as support for multiple hardware configurations, physical and virtual network connection indicators and firmware baseline updates. 	<ul style="list-style-type: none"> The iRMC S6 and Fujitsu Infrastructure Manager (ISM) suite enable efficient and simplified server and infrastructure management, boosting IT administrator productivity. The design also has hot-plug components and quick access of critical components to enable easy serviceability.

Technical details

PRIMERGY TX1330 M5

Base unit	PRIMERGY TX1330 M5	
Housing types	Rack	Tower
Power supply	Hot-plug	Hot-plug
Product Type	Mono Socket Tower Server	Mono Socket Tower Server

Mainboard

Mainboard type	D3931
Chipset	Intel® C256
Processor quantity and type	1 x Intel® Xeon® E-2300 processor family / Intel® Pentium® processor

Intel® Xeon® Max Processor

Intel® Xeon® processor E-2324G (4C/4T, 3.10 GHz, TLC: 8 MB, Turbo: 4.50 GHz, 3,200 MHz, 65 W)
 Intel® Xeon® processor E-2356G (6C/12T, 3.20 GHz, TLC: 12 MB, Turbo: 4.70 GHz, 3,200 MHz, 80 W)
 Intel® Xeon® processor E-2374G (4C/8T, 3.70 GHz, TLC: 8 MB, Turbo: 4.70 GHz, 3,200 MHz, 80 W)

Processor

Intel® Xeon® processor E-2374G (4C/8T, 3.70 GHz, up to 4.9 GHz, 3,200 MHz)
 Intel® Xeon® processor E-2356G (6C/12T, 3.20 GHz, up to 4.8 GHz, 3,200 MHz)
 Intel® Xeon® processor E-2324G (4C/4T, 3.10 GHz, up to 4.5 GHz, 3,200 MHz)
 Intel® Pentium® Gold G6405 (2C/4T, 4.10 GHz, 2,666 MHz)

Memory slots	4
Memory slot type	UDIMM (DDR4)
Memory capacity (min. - max.)	8 GB - 128 GB
Memory protection	ECC
Memory notes	support up to 3200 MT/s. Pentium CPU support up to 2666 MT/s only. Any mix of different memory modules with different order code is not supported.

Interfaces

USB 2.x ports	4 (Rear: 4x USB 2.0)
USB 3.x ports	6 (Front: 1x USB 3.2 Gen2x2(20 Gbps) Type C, 1x USB 3.2 Gen1x1(5 Gbps) / Rear: 2x USB 3.2 Gen2x1(10 Gbps) / Internal: 2x USB 3.2 Gen1x1(5 Gbps))
Graphics (15-pin)	2 (1x Display Port (Integrated processor graphics) / 1x VGA (15-pin) / can be used exclusively)
Serial connection	1 x RS232 (option)
LAN / Ethernet	2
Management LAN (RJ45)	1 x dedicated management LAN port for iRMC S6 (10/100/1000 Mbit/s) Management LAN traffic can be switched to shared onboard Gbit LAN port

Onboard or integrated Controller

Serial ATA total	7
RAID controller	Optionally integrated RAID 0/1 or RAID 5/6 controller for SAS base units (occupies one PCIe slot). All hardware storage controller options are described under Components
SATA controller type notes	Intel® C256, 1x SATA channel for ODD, 2x SATA channel for M.2, 4x SATA channel for HDD/SSD
LAN Controller	Intel® i210 onboard 2 x 1 Gbit/s Ethernet (RJ45)
Trusted Platform Module (TPM)	TPM 2.0 module (option)

Slots

PCI-Express 4.0 x8	2 x Full height (2x PCIe 4.0 x8 slots can be switched to 1x PCIe 4.0 x16)
PCI-Express 3.0 x4	2 x Full height
Slot Notes	PCIe 4.0 slot works as PCIe 3.0 with Pentium CPU.

Drive bays

Storage drive bays	3.5-inch or 2.5-inch hot-plug SAS/SATA or 2.5-inch NVMe drives
Accessible drive bays	3 x 5.25/1.6-inch
Notes accessible drives	all possible options described in relevant system configurator

Drive bays (Base unit specific)

Storage drive bays	Max. 12x 3.5-inch or 24x 2.5-inch
Accessible drive bays	Accessible drive bays are not available in case of max. storage drive configuration
Number of fans	2
Fan configuration	redundant fans
Fan notes	non hot-plug

Operating panel

Operating buttons	On/off switch NMI button Reset button ID button
Status LEDs	At system front side: Power (DC-On: green / AC-On: white) Global Error Indicator Identification (blue) Hard disks access (green) At system rear side: Identification (blue) CSS (orange) Global error (orange) LAN connection (green) LAN speed (green / yellow)

Operating Systems and Virtualization Software

Certified or supported operating systems and virtualization software	Windows Server 2022 Datacenter Windows Server 2022 Standard Windows Server 2022 Essentials Windows Server 2019 Datacenter Windows Server 2019 Standard Windows Server 2019 Essentials VMware vSphere™ 8.0 VMware vSphere™ 7.0 SUSE® Linux Enterprise Server 15 Red Hat® Enterprise Linux 8 Univention Corporate Server 4
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.

Server Management

DC Infrastructure Management	Infrastructure Manager (ISM) Essential Edition Advanced Edition
Server Management	Infrastructure Manager (ISM) Essential Edition Advanced Edition
Management notes	For further information regarding ISM and ServerView Suite see dedicated data sheets.
Manageability link	http://docs.ts.fujitsu.com/dl.aspx?id=9e92297a-16fb-4c69-8559-e38e7b42fee6

Dimensions / Weight

Floor-stand (W x D x H)	177.2 x 521.7 x 456.2 mm
Rack (W x D x H)	482.6 x 495.3 x 174.7 mm
Dimension notes	without feet and protrusions
Height Unit Rack	4 U
Weight	up to 26.4 kg
Weight notes	Actual weight may vary depending on configuration

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. Please use the Fujitsu WebArchitect (www.fujitsu.com/configurator/public) to get detailed information on the corresponding configurations.
Operating relative humidity	8 - 85 % (non condensing)
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
Noise emission	According to ISO9296
Sound pressure (LpAm)	22 dB(A) (idle)/ 22 dB(A) (operating)
Sound power (LWAd; 1B = 10dB)	3.6B (idle)/ 3.6B (operating)
Noise notes	Noise emissions depend on operation modes, system configuration and ambient temperature.

Electrical values

Power supply configuration	1 x standard, 1 x hot-plug, 2 x hot-plug redundant (depending on Model)
Active power (max. configuration)	1,088 W
Apparent power (max. configuration)	230V: 1035VA 100V: 1100 VA
Heat emission (max. configuration)	3916.8 kJ/h (3712.4 BTU/h)
Rated current max.	11A (100V) / 4.5A (240V)
Power supply	300W standard, 90% (Gold efficiency), 100-240V, 50 / 60Hz 450W standard, 92% (Platinum efficiency), 100-240V, 50/60Hz 500W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz 500W hot-plug, 96% (Titanium efficiency), 200-240V, 50 / 60Hz 900W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz 900W hot-plug, 96% (Titanium efficiency), 200-240V, 50 / 60Hz

Compliance

Product	PRIMERGY TX1330 M5
Model	PS1330A
Global	CB RoHS (Substance limitations in accordance with global RoHS regulations) WEEE (Waste electrical and electronic equipment)
Germany	GS
Europe	CE
USA/Canada	NRTLc/us FCC Class A ICES-003 / NMB-003 Class A
Japan	VCCI Class A + JIS 61000-3-2
Russia	EAC
South Korea	KC
China	CCC
Australia/New Zealand	RCM
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 user may be required to take adequate measures.
Manufacturer	Fsas Technologies Inc. 13-2, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa, 211-0012, Japan

Components

Backup Drives	LTO7HH Ultrium, 2,500 GB, 300 MB/s, half height, SAS 6Gb/s
	LTO7HH Ultrium, 300 MB/s, half height
	LTO7HH Ultrium, 300 MB/s, half height, SAS 6Gb/s
Optical drives	Blu-ray Disc™ Triple Writer, (6x BD-RW, 8x DVD, 24x CD), ultraslim, SATA I
	CD-RW / DVD Combo, (8x DVD, 24x CD), ultraslim, SATA III
	DVD-ROM, (8x DVD, 24x CD), ultraslim, SATA III
	DVD Super Multi ultra slim , (8x DVD; 24x CD), ultraslim, SATA I
SSD SAS 2.5-inch	SSD SAS, 12 Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD
	SSD SAS, 12 Gb/s, 800 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD
	SSD SAS, 12 Gb/s, 400 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD
	SSD SAS, 12 Gb/s, 15.36 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD
	SSD SAS, 12 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD
	SSD SAS, 12 Gb/s, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD
	SSD SAS, 12 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD
	SSD SAS, 12 Gb/s, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD
	SSD SAS, 12 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD
	SSD SAS, 12 Gb/s, 1.6 TB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD
	SSD SAS, 12 Gb/s, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD
SSD SATA 2.5-inch	SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD, SED
	SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD
	SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD, SED
	SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD
	SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD, SED
	SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD
	SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD, SED
	SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD
	SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.4 DWPD
	SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD
	SSD SATA, 6 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD, SED
	SSD SATA, 6 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.5 DWPD
	SSD SATA, 6 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD, SED
	SSD SATA, 6 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD
	SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD, SED
	SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 1.0 DWPD
	SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD, SED
	SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD
	SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD, SED
	SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD

SSD SATA 3.5-inch

SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD, SED

SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 0.9 DWPD

SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 DWPD, SED

SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 0.9 DWPD

SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD, SED

SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 0.9 DWPD

SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 DWPD, SED

SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 0.9 DWPD

SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1.4 DWPD

SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1.0 DWPD

SSD SATA, 6 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD, SED

SSD SATA, 6 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 0.5 DWPD

SSD SATA, 6 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD, SED

SSD SATA, 6 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1.0 DWPD

SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 DWPD, SED

SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 1.0 DWPD

SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD, SED

SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 0.9 DWPD

SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 DWPD, SED

SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 0.9 DWPD

HDD 2.5-inch

HDD SAS, 12 Gb/s, 600 GB, 10,000 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, 2.4 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise

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 3.5-inch

HDD SATA, 6 Gb/s, 18 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical

HDD SATA, 6 Gb/s, 16 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical

HDD SATA, 6 Gb/s, 14 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical

HDD SATA, 6 Gb/s, 12 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, 5,400 rpm, 512e, hot-plug, 3.5-inch, economic

HDD SATA, 6 Gb/s, 1 TB, 5,400 rpm, 512e, hot-plug, 3.5-inch, economic

HDD SAS, 12 Gb/s, 18 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical

HDD SAS, 12 Gb/s, 16 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical

HDD SAS, 12 Gb/s, 14 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical

HDD SAS, 12 Gb/s, 12 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, business critical

HDD SAS, 12 Gb/s, 4 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical

HDD SAS, 12 Gb/s, 2 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical

PCIe SSD & SATA DOM SSD

PCIe-SSD SFF, 15.36 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD

PCIe-SSD SFF, 12.8 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD

SED	SSD SAS, 12 Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD, SED
	SSD SAS, 12 Gb/s, 400 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD, SED
	SSD SAS, 12 Gb/s, 1.6 TB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD, SED
	HDD SAS, 12 Gb/s, 600 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, SED
	HDD SAS, 12 Gb/s, 18 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, enterprise, SED
	HDD SAS, 12 Gb/s, 16 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, enterprise, SED
	HDD SAS, 12 Gb/s, 14 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, enterprise, SED
	HDD SAS, 12 Gb/s, 12 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, enterprise, SED
	HDD SAS, 12 Gb/s, 6 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, enterprise, SED
	HDD SAS, 12 Gb/s, 2.4 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, SED
	HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED
SCSI / SAS Controller	PSAS CP 2100-8i FH SAS Ctrl. 12 Gbit/s 8 ports int. PCIe 3.0 x8
RAID Controller	pre-configured RAID1 Array for M.2 in PDUAL,
	PRAID EP680i FH, 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, Optional FBU based on LSI SAS3916
	PRAID EP640i FH, 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 SAS3908
	PRAID EP520i FH, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 8 Gbit/s, 8 Gbit/s 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3516
Fibre Channel controller	PRAID CP500i FH, RAID 5 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, No FBU support
	Fibre Channel Host Bus Adapter 1 x Qlogic QLE2770-FJ-BK LC-style
	Fibre Channel Host Bus Adapter 2 x Qlogic QLE2772-FJ-BK LC-style
	Fibre Channel Host Bus Adapter 1 x 32 Gbit/s Emulex LPE35000-M2-F MMF LC-style
	Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Emulex LPE35002-M2-F MMF 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
GPU computing card	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
GPU computing card	NVIDIA® A2, 200GB/s, 16GB, N/A, PCIe 4.0 x8
	-, xxxGB/s, 24GB GDDR6, N/A, PCIe 4.0 x16
	NVIDIA® T400 4GB, 4 GB, 384 cores, 4GB, N/A, PCIe x16, 3 x miniDP
Rack infrastructure	Rack Mount Kit
	Cable Arm 2U for PRIMECENTER- and 3rd-party racks
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	1 year
Warranty type	Onsite warranty
Warranty Terms & Conditions Product Support - the perfect extension	http://support.ts.fujitsu.com/warranty/Index.asp?LNG=COM
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/fts/products/product-support-services/

More information

Fsas Technologies products, solutions & services

In addition to PRIMERGY TX1330 M5, 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://www.fsastech.com/en-eu/>

More information

Learn more about PRIMERGY TX1330 M5, please contact your Fsas Technologies sales representative or Business partner, or visit our website.
<http://www.fujitsu.com/global/products/computing/servers/primergy/tower/tx1330m5/>

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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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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