

Data Sheet

FUJITSU Server PRIMERGY TX140 S2 Mono-Socket Intel® Xeon® processor server

Expandable all-round server for SMEs

FUJITSU Server PRIMERGY systems provide the most powerful and flexible data center solutions for companies of all sizes, across all industries and for any type of workload. This includes expandable PRIMERGY tower servers for remote and branch offices, versatile rack-mount servers. compact and scalable blade systems, as well as density-optimized scale-out servers. They convince by business proven quality with a wide range of innovations, highest efficiency cutting operational cost and complexity, and provide more agility in daily operations in order to turn IT faster into a business advantage.

Perfect for small and medium businesses as well as branch offices, FUJITSU Server PRIMERGY TX tower systems are robust and cost-efficient servers by providing rock solid reliability. Additionally they are characterized by simple IT operations, low power consumption and quiet operation so that they can be handled by non-technically trained staff and can be used in standard office environments. By the way: Almost all PRIMERGY TX servers can be rack-mounted to offer best flexibility.

PRIMERGY TX140 S2

The PRIMERGY TX140 S2 is the ideal robust and cost-efficient server for small and medium-sized businesses (SMB) or branch offices. It offers best Intel® Xeon® E3 performance and solid expandability thanks to hot-plug storage drives. The optionally redundant power supply and a choice of different RAID controllers ensure high availability and peace of mind. Thanks to its compact housing and extremely low operating noise the server is ideally suited for showrooms or offices, for example under the desk. The optional support of legacy PCI adapter cards makes the PRIMERGY TX140 S2 optimally suited for special solutions, such as telephone or security systems. Furthermore, the comprehensive Fujitsu ServerView® Suite provides support for administrators during server installation, deployment and administration. The PRIMERGY TX140 S2: an excellent long-term investment.















Page 1 / 9 www.fujitsu.com/fts

Features & Benefits

Main Features	Benefits
Cost-effective performance and availability	
■ Latest Intel® Xeon® E3 v3 series technology	■ Increased performance of up to 15 % compared to the previous
Optionally redundant power supply unit	generation
	 Optimized for classic server tasks like business applications, file, print or databases
	Redundant power supply units for peace of mind
Optimized for SMEs	
Low noise emissions through optimized air flow and Fujitsu's Cool-	Silent operation for use in offices or showrooms
Safe™ technology	So small and silent that it might even be placed under desks
■ New compact 4 U chassis	■ The comprehensive tools of the Fujitsu ServerView Suite eases the
 Fujitsu ServerView Suite including tools for installation and deployment, permanent status monitoring and control 	administrator's life
Lifecycle investment protection	
■ Solid scalability of up to 4 DIMMs with 32 GB memory, up to 8	Meet today's demand and be prepared for future requirements
storage drives and 4 PCI slots	Support for special solutions like telephone or security systems
Optional support for legacy PCI cards	■ The TX140 S2 grows as your company grows, making it an excellent
Optional tower to rack conversion kit and extensive connectivity options	long-term investment

Page 2 / 9 www.fujitsu.com/fts

Technical details

PRIMERGY TX140 S2				
Base unit	PRIMERGY TX140 S2 LFF	PRIMERGY TX140 S2 SFF	PRIMERGY TX140 S2 LFF	PRIMERGY TX140 S2 SFF
Housing types	Tower	Tower	Tower	Tower
Storage drive architecture	3.5-inch	2.5-inch	3.5-inch	2.5-inch
Power supply	Standard	Standard	Hot-plug	Hot-plug
	Standard	Startagio		
Mainboard	D2220			
Mainboard type	D3239 Intel® C224			
Chipset Processor quantity and type		cor / Intol® Coro™ i2 processo	r / Intel® Xeon® processor E3-	1200v2 product family
. , , , ,	<u>'</u>	soi / iiitei « coie ··· io piocesso	1 / Illfel., Veoli., bioreszoi E2-	
(2C/4T, 3	re™ i3-4330 processor 8.50 GHz, TLC: 4 MB, Turbo: No, 1,60	00 MHz, 54 W)		
(2C/2T, 3	ntium® processor G3420 3.20 GHz, TLC: 3 MB, Turbo: No, 1,60	00 MHz, 54 W)		
	on® processor E3-1220v3 3.10 GHz, TLC: 8 MB, Turbo: Yes, 1,6	00 MHz, 80 W)		
	on® processor E3-1230v3	00.111.		
	3.30 GHz, TLC: 8 MB, Turbo: Yes, 1,6	00 MHz, 80 W)		
(4C/8T, 3	on® processor E3-1240v3 3.40 GHz, TLC: 8 MB, Turbo: Yes, 1,61	00 MHz, 80 W)		
	on® processor E3-1265Lv3 2.50 GHz, TLC: 8 MB, Turbo: Yes, 1,60	00 MHz, 45 W)		
	on® processor E3-1270v3 8.50 GHz, TLC: 8 MB, Turbo: Yes, 1,60	00 MHz, 80 W)		
Intel® Xe	on® processor E3-1280v3 8.60 GHz, TLC: 8 MB, Turbo: Yes, 1,60			
Memory slots	4			
Memory slot type	DIMM (DDR3) UDIMM			
Memory capacity (min max.)	4 GB - 32 GB			
Memory protection	ECC			
Memory options	2 GB (1 module(s) 2 GB) D	DR3 unbuffered FCC 1 600	MHz, PC3-12800, DIMM, single	rank
Memory options			MHz, PC3-12800, DIMM, dual i	
			MHz, PC3-12800, DIMM, dual i	
			WITE, FC5-12000, DIIVIIVI, dual I	dik
Memory modules notes	1333MHz or 1600 MHz me	mory modules		
Interfaces				
USB 2.0 ports	6 (4x external rear, 2x inte	ernal for UFM or backup devic	e, no USB wakeup supported)	
USB 3.0 ports	4 (2x external rear, 2x ext	•		
Graphics (15-pin)		· · ·	00x1200 or 1920x1080 at 16b	opp)
Serial connection	1 x serial RS-232-C, usable	e for iRMC or system or shared		
LAN / Ethernet	2 x1 Gb/s Ethernet; RJ45			
Management LAN (RJ45)		at LAN port for iRMC S4 (10/10) an be switched to shared onb		
Onboard or integrated Controller				
RAID controller		0/1 or RAID 5/6 controller for options are described under (SAS base units (occupies one components RAID controller	PCIe slot).
SATA Controller	Intel® C224, 2 ports used for	•	·	
LAN Controller	Intel® i217 + Intel® i210 or support, APM wake up	nboard, 2 x 10/100/1000 Mbi SI and PXE 2.0-remote Boot v	t/s Ethernet, Intel® i217LM: 2x	TX/2xRX, iSCSI remote boot

Page 3 / 9 www.fujitsu.com/fts

Onboard or integrated Controller			
Remote management controller	Integrated Remote Management Controller (iRMC S4, 256 MB attached memory incl. graphics controller) IPMI 2.0 compatible		
Trusted Platform Module (TPM)	Infineon / 1.2 (option)		
Slots			
PCI-Express 3.0 x8	2 x (up to 240 mm length)		
PCI-Express 2.0 x1 (mech. x4)	1 x (up to 167 mm lenght)		
PCI-Express 2.0 x4 (mech. x8)	1 x (up to 167 mm length)		
Slot Notes	In SAS configuration 1x PCI-Express occupied by modular RAID controller. In configurations with Intel® Core™ i3 or Intel® Pentium® processors slots are operated with PCI-Express 2.0.		
Drive bays			
Storage drive bays	3.5-inch or 2.5-inch hot-plug SAS/SATA		
Accessible drive bays	3 x 5.25/1.6-inch		
Notes accessible drives	all possible options described in relevant system confi	igurator	
Drive bays (Base unit specific)			
Storage drive bays	Max. 4x 3.5-inch	Max. 8x 2.5-inch	
Accessible drive bays	$3 \times 5.25/1.6$ -inch for $1 \times backup drive + 1 \times ODD$	$3 \times 5.25/1.6$ -inch for $1 \times backup drive + 1 \times ODD$	
General system information			
Number of fans	1		
Fan configuration	1 standard fan		
Fan notes	non redundant / non hot-plug		
Operating panel			
Operating buttons	On/off switch NMI button Reset button		
Status LEDs	System status (orange / yellow) Identification (blue) Hard disks access (green) Power (orange / green) At system rear side: System status (orange / yellow) Identification (blue) LAN connection (green) LAN speed (green / yellow) CSS (yellow)		
BIOS			
BIOS features	ROM based setup utility Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows and Linux versi Local and remote update via ServerView Update Mana Remote PXE boot support Remote iSCSI boot support	ions ager	

Page 4 / 9 www.fujitsu.com/fts

Deployment Solutions and others ServerView Suite - Maintain
Deployment Solutions and others ServerView Suite - Maintain iRMC Advanced Pack incl. Advanced Video Redirection (AVR), video capturing and Virtual Media ServerView Suite - Integrate
Deployment Solutions and others ServerView Suite - Maintain
Deployment Solutions and others
Integration packs e.g. for Microsoft System Center, VMware vCenter, Nagios, HP SIM and others
ServerView Suite - Integrate
Online Diagnostics
Asset Management
Update Management (BIOS, Firmware, Windows Drives and SV Agents) Performance Measurement
Remote Management (IRMC)
ServerView Suite - Maintain
Storage Support
Power Management
Capacity Management
System Monitor RAID Manager
Agents and CIM Providers
(Prefailure and Analysis; Automatic Server Recovery and Restart)
Operations Manager incl. PDA and ASR & R
ServerView Suite - Control
SV Installation Manager SV Scripting Toolkit
ServerView Suite - Deploy
συρροιτ οι οτιτεί επιολ σεπνατίνες οπ σεπιαπο
Support of other Linux derivatives on demand
http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473
Red Hat® Enterprise Linux 5 Red Hat® Enterprise Linux 5 with XEN
Red Hat® Enterprise Linux 6 Red Hat® Enterprise Linux 5
Red Hat® Enterprise Linux 7
SUSE® Linux Enterprise Server 11
Wilclosoft Williams Saliver Standard 2011 VMware vSphere™ 5.1
Microsoft® Windows® Small Business Server Standard 2011
Microsoft® Windows® Small Business Server 2011 Premium Add-On
Microsoft® Windows Server® 2008 R2 Foundation Microsoft® Windows® Web Server 2008 R2
Microsoft® Windows Server® 2008 R2 Enterprise Microsoft® Windows Server® 2008 R2 Standard
Microsoft® Hyper-V™ Server 2008 R2 Microsoft® Windows Server® 2008 R2 Datacenter
Microsoft® Windows Storage Server 2012 Standard
Microsoft® Windows Server® 2012 Foundation
Microsoft® Windows Server® 2012 Essentials
Microsoft® Windows Server® 2012 Standard
Microsoft® Windows Server® 2012 Datacenter
Microsoft® Hyper-V Server 2012
Microsoft® Windows Storage Server 2012 R2 Standard
Microsoft® Windows Server® 2012 R2 Foundation
Microsoft® Windows Server® 2012 R2 Essentials
Microsoft® Windows Server® 2012 R2 Standard
Microsoft® Windows Server® 2012 R2 Datacenter
Microsoft® Hyper-V Server 2012 R2
VMware vSphere™ 5.1 Embedded
oftware

Page 5 / 9 www.fujitsu.com/fts

Dimensions / Weight	
Floor-stand (W x D x H)	177 x 560 x 455 mm
Rack (W x D x H)	483 x 495 x 175 mm
Dimension notes	Floorstand Width 306 mm with tilt protection; depth measured excludes handles on redundant PSU. Rack depth excludes handles of redundant PSU and rack front.
Mounting Depth Rack	543 mm
Height Unit Rack	4 U
Weight	Rack: 12.5kg - 20kg; Tower: 15kg - 23 kg
Weight notes	Actual weight may vary depending on configuration
Rack integration kit	Rack integration kit can be ordered as option
Environmental	
Operating ambient temperature	10 - 35 ℃
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=e4813edf-4a27-461a-8184-983092c12dbe
Sound pressure (LpAm)	SATA: 25 dB(A) idle mode/ 25 dB(A) operation mode; SAS: 31 dB(A) idle mode/ 34 dB(A) operation mode
Sound power (LWAd; 1B = 10dB)	SATA: 4.2 B idle mode/ 4.2 B operation mode ; SAS: 4.8 B idle mode/ 5.2 B operation mode
Noise notes	Noise emissions and operation modes depend on system configuration.
Electrical values	
Power supply configuration	1x standard, 1x hot-plug or 2x redundant hot-plug
Max. output of single power supply	450 W
Standard power supply output	300 W (90 % efficiency)
Hot-plug power supply output	450 W (94 % efficiency, 80 PLUS platinum)
Hot-plug power supply redundancy	Yes
Rated voltage range	100 V - 240 V
Rated frequency range	47 Hz - 63 Hz
Rated current max.	6 A / 3 A (100 V / 240 V)
Active power (min. configuration)	23 W
Active power (max. configuration)	203 W
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/
Apparent power (max. configuration)	247 VA
Heat emission	730.8 kJ/h (692.7 BTU/h)
Power Supply Notes	The active power and apparent power values may change according to configuration.
Compliance	
Global	CB RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment)
Germany	CS CS
Europe	CE Class A *
USA/Canada	CSA us ULc/us
lanan	FCC Class A
Japan	VCCI COST D
Russia South Korea	GOST-R KC
China	CCC
Australia/New Zealand	C-Tick
Taiwan	BSMI
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates
Compliance notes	* Warning:
comprisince notes	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.

Page 6 / 9 www.fujitsu.com/fts

Components

Storage drives	SSD SATA, 6 Gb/s, 800 GB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise
	SSD SATA, 6 Gb/s, 400 GB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise
	SSD SATA, 6 Gb/s, 200 GB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise
	SSD SATA, 6 Gb/s, 100 GB, MLC, hot-plug, 2.5-inch, enterprise
	SSD SATA, 6 Gb/s, 100 GB, Mainstream Endurance, hot-plug, 2.5-inch, enterprise
	HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, hot-plug, 3.5-inch, economic
	HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, hot-plug, 2.5-inch, business critical
	HDD SATA, 6 Gb/s, 250 GB, 7,200 rpm, hot-plug, 3.5-inch, economic
	HDD SATA, 6 Gb/s, 250 GB, 7,200 rpm, hot-plug, 2.5-inch, business critical
	HDD SATA, 6 Gb/s, 3 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, hot-plug, 2.5-inch, business critical
	HDD SAS, 6 Gb/s, 900 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 600 GB, 15,000 rpm, hot-plug, 3.5-inch, enterprise
	HDD SAS, 6 Gb/s, 600 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 600 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 500 GB, 7,200 rpm, hot-plug, 2.5-inch, business critical
	HDD SAS, 6 Gb/s, 450 GB, 15,000 rpm, hot-plug, 3.5-inch, enterprise
	HDD SAS, 6 Gb/s, 450 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 450 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 300 GB, 15,000 rpm, hot-plug, 3.5-inch, enterprise
	HDD SAS, 6 Gb/s, 300 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 300 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 146 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 4 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical
	HDD SAS, 6 Gb/s, 3 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, 1.2 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	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
Backup Drives	LTO4HH Ultrium, 800 GB, 120 MB/s, half height, SAS 6Gb/s
	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
	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-ROM ; 8x DVD; 24x CD), slimline, SATA I
	DVD-ROM, (16xDVD; 48xCD), half height, SATA I
	DVD Super Multi, (16xDVD, 8xDVD+RW 6xDVD-RW, 12xDVD-RAM; 48xCD, 32xCD-RW), half height, SATA I
CSI / SAS Controller	SAS Ctrl. 6 Gbit/s 8 ports int. PCle 2.0 x8
RAID Controller	RAID 5/6 Ctrl., SAS/SATA 6 Gbit/s, Fujitsu RAID Ctrl SAS 6G 5/6 512MB (D2616), 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, Optional BBU for selected systems (based on LSI SAS2108)
	RAID 5/6 Ctrl., SAS/SATA 6 Gbit/s, Fujitsu RAID Ctrl SAS 6G 1GB (D3116C), 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 1 GB, Optional FBU (based on LSI SAS2208)
	RAID 0/1 Ctrl., SAS/SATA 6 Gbit/s, Fujitsu RAID Ctrl SAS 6G 0/1 (D2607), 8 ports int. RAID level: 0, 1, 10, No BBU support

Page 7 / 9 www.fujitsu.com/fts

Communication, Network	Ethernet Ctrl. 1 x 1 Gbit/s PCle 1.1 x1 (Intel®)	
	Ethernet Ctrl. 2 x 10 Gbit/s PCle 2.0 x8 (Fujitsu)	
	Ethernet Ctrl. 2 x 10 Gbit/s PCle 2.1 x8 (Intel®)	
	Ethernet Ctrl. 2 x 1 Gbit/s PCle 2.1 x4 (Intel®)	
	Ethernet Ctrl. 4 x 1 Gbit/s PCle 2.1 x4 (Intel®)	
Graphics add on cards	NVIDIA® Quadro® NVS 300, PCIe x1, 2x DVI/VGA	
Warranty		
Standard Warranty	1 year	
Service level	Onsite Service	
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty/Index.asp?LNG=COM	
Maintenance and Support Services	- the perfect extension	
Support Pack Options	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	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	http://www.fujitsu.com/fts/services	

Page 8 / 9 www.fujitsu.com/fts

More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu PRIMERGY TX140 S2, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products

www.fujitsu.com/global/services/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu PRIMERGY TX140 S2, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. www.fujitsu.com/fts

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/qlobal/about/environment



Copyrights

All rights reserved, including intellectual property rights. Changes to technical data reserved. Delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

For further information see http://www.fujitsu.com/fts/resources/navigation/terms-of-use.html

Copyright © Fujitsu Technology Solutions

Disclaimer

Technical data are subject to modification and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

Contact FUIITSU LIMITED

Website: www.fujitsu.com 2014-10-08 CE-EN All rights reserved, including intellectual property rights. Changes to technical data reserved. Delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded.

Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

For further information see http://www.fujitsu.com/fts/resources/navigation/terms-of-use.html Copyright © Fujitsu Technology Solutions

Page 9 / 9 www.fujitsu.com/fts