

# Data Sheet

## Fujitsu PRIMERGY TX140 S1 Mono-Socket Intel® Xeon® processor server

Expandable SME all-round server

PRIMERGY TX tower servers are ideal for use in SMEs or branch offices. They increase operational efficiency by providing rock solid, record-breaking, energy efficient performance. That performance is built on 20-years of pioneering work in Green IT. As a customer, you benefit from a reduction in your organization's environmental impact and lower running costs. The reliability is proven by testing the machines through 5000 boot cycles far more than other vendors do. PRIMERGY TX servers are also easy to manage via the PRIMERGY ServerView Suite, reducing IT admin workload and costs. Plus, tower to rack conversion kits are available for most TX systems, ensuring investment protection.

### PRIMERGY TX140 S1

PRIMERGY TX140 S1: the expandable SME all-rounder. It is ideal for SME or branch customers looking for a classic file, print, mail, or database server, with high scalability and record-setting performance per watt. As the company evolves, so too does the TX140 S1. Storing up to 8TB of data, the TX140 S1 can easily handle large files. At a later stage, the TX140 S1 can be included in a rack cabinet with dedicated storage systems. From here, customers can fully take advantage of the extensive connectivity options, Intel® Xeon® E3 series performance, and high serviceability via the optional front service LAN port. The TX140 S1: an excellent long-term investment.



# Features and Benefits

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Main Features	Benefits
<ul style="list-style-type: none"><li>■ The Intel® Xeon® processor E3 family-based platform and Fujitsu's engineering capabilities give you excellent performance with low energy consumption (CSCI Gold).</li><li>■ Up to 8TB of storage possible</li><li>■ 2x 1Gigabit LAN as standard and 3.5-inch (max.4) or 2.5-inch (max.8) hot-plug hard disks</li><li>■ Optional tower to rack conversion kit and extensive connectivity options</li><li>■ The onboard remote management controller (iRMC S3), and the optional service LAN, makes it easier to service your TX140 S1</li></ul>	<ul style="list-style-type: none"><li>■ High performance and energy efficiency</li><li>■ Whatever you need you can store it: databases, pictures, large files...storage - no problem!</li><li>■ High availability to keep your business going - non-stop!</li><li>■ The TX140 S1 grows as your company grows, making it an excellent long-term investment</li><li>■ High manageability and serviceability - saving you time</li></ul>

# Technical details

## PRIMERGY TX140 S1

Housing type	Tower	Tower	Rack	Rack
Storage drive architecture	4x 3.5" SAS/SATA	8x 2.5" SAS/SATA	4x 3.5" SAS/SATA	8x 2.5" SAS/SATA
Power supply	Standard	Standard	Standard	Standard

## Mainboard

Mainboard type	D 3049
Chipset	Intel® C200
Processor quantity and type	1 x Intel® Core™ i3 processor / Intel® Pentium® processor / Intel® Xeon® processor E3 series

## Processor

Intel® Core™ i3-2100 processor (2C/4T, 3.10 GHz, TLC: 3 MB, Turbo: No, 1333 MHz, 65 W)
Intel® Core™ i3-2120 processor (2C/4T, 3.30 GHz, TLC: 3 MB, Turbo: No, 1333 MHz, 65 W)
Intel® Pentium® processor G620 (2C/2T, 2.60 GHz, TLC: 3 MB, Turbo: No, 1066 MHz, 65 W)
Intel® Xeon® processor E3-1220 (4C/4T, 3.10 GHz, TLC: 8 MB, Turbo: 3.40 GHz, 1333 MHz, 80 W)
Intel® Xeon® processor E3-1230 (4C/8T, 3.20 GHz, TLC: 8 MB, Turbo: 3.60 GHz, 1333 MHz, 80 W)
Intel® Xeon® processor E3-1240 (4C/8T, 3.30 GHz, TLC: 8 MB, Turbo: 3.70 GHz, 1333 MHz, 80 W)
Intel® Xeon® processor E3-1260L (4C/8T, 2.40 GHz, TLC: 8 MB, Turbo: 3.30 GHz, 1333 MHz, 45 W)
Intel® Xeon® processor E3-1270 (4C/8T, 3.40 GHz, TLC: 8 MB, Turbo: 3.80 GHz, 1333 MHz, 80 W)
Intel® Xeon® processor E3-1280 (4C/8T, 3.50 GHz, TLC: 8 MB, Turbo: 3.90 GHz, 1333 MHz, 95 W)

Memory slots	4
Memory slot type	DIMM (DDR3) UDIMM
Memory capacity (min. - max.)	2 GB - 32 GB
Memory protection	ECC

Memory options	2 GB (1 module(s) 2 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM
	4 GB (1 module(s) 4 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM
	8 GB (1 module(s) 8 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM

Memory modules notes	1333 MHz memory modules
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## Interfaces

USB ports	10 x USB 2.0 (2x front, 6x rear, 2x internal; the 2 internal ports cannot be used in parallel)
Graphics (15-pin)	1 x VGA
Serial 1 (9-pin)	1 x serial RS-232-C, usable for iRMC or system or shared
Serial 2 (9-pin)	1
LAN / Ethernet (RJ-45)	2 x Gbit/s Ethernet
Service LAN (RJ45)	1 x dedicated management LAN port for iRMC S3 (10/100/1000 Mbit/s) Service LAN traffic can be switched to shared onboard Gbit LAN port

## Onboard or integrated Controller

RAID controller	Integrated RAID 0/1 or RAID 5/6 controller for SAS base units (option, occupies one PCIe slot). See under Components RAID controller
SATA Controller	Intel® C200, 2 ports used for accessible drives 4 port for internal SATA HDDs with RAID 0, 1, 10 for Windows and Linux;
LAN Controller	Intel® 82574L + Intel® 82579LM onboard, 2 x 10/100/1000 Mbit/s Ethernet (TCP/IP acceleration), iSCSI and PXE-Boot via LAN, WoL for Intel® 82574L only.

**Onboard or integrated Controller**

<b>Remote Management Controller</b>	Integrated Remote Management Controller (iRMC S3, 32 MB attached memory incl. graphics controller), IPMI 2.0 compatible
<b>Trusted Platform Module (TPM)</b>	Infineon / 1.2 (option)

**Slots**

<b>PCI-Express 2.0 x1 (mech. x4)</b>	1 x
<b>PCI-Express 2.0 x4 (mech. x8)</b>	1 x
<b>PCI-Express 2.0 x16</b>	1 x
<b>PCI-slots</b>	1 x PCI 32/33 MHz, 1x long, 5V
<b>Slot Notes</b>	in SAS configuration 1x PCI-Express occupied by modular RAID controller.
<b>Storage drive bay configuration</b>	4x 3.5-inch, for SAS / SATA or 8x 2.5-inch for SAS/SATA optional
<b>Accessible drive bays</b>	3 x 5.25/1.6-inch
<b>Notes accessible drives</b>	all possible options described in relevant system configurator
<b>Number of fans</b>	1
<b>Fan configuration</b>	1 standard fan

**Operating panel**

<b>Operating buttons</b>	On/off switch NMI button Reset button
<b>Status LEDs</b>	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**

<b>BIOS features</b>	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 versions Local and remote update via ServerView Update Manager Remote PXE boot support Remote iSCSI boot support
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**Operating Systems and Virtualization Software**

<b>Certified or supported operating systems and virtualization software</b>	Microsoft® Hyper-V™ Server 2008 R2
	Microsoft® Windows Server® 2008 R2 Datacenter
	Microsoft® Windows Server® 2008 R2 Enterprise
	Microsoft® Windows Server® 2008 R2 Standard
	Microsoft® Windows Server® 2008 R2 Foundation
	Microsoft® Windows® Web Server 2008 R2
	Microsoft® Windows® Small Business Server 2011 Premium Add-On
	Microsoft® Windows® Small Business Server Standard 2011
	Microsoft® Windows® Server 2008 Datacenter
	Microsoft® Windows® Server 2008 Enterprise
	Microsoft® Windows® Server 2008 Standard
	Microsoft® Windows® Web Server 2008
	Novell® SUSE Linux Enterprise Server 11
	Novell® SUSE Linux Enterprise Server 10
	Red Hat® Enterprise Linux 6
Red Hat® Enterprise Linux 5	
<b>Operating system release link</b>	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421">http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421</a>
<b>Operating system notes</b>	Support of other Linux derivatives on demand

**Server Management**

<b>Standard</b>	<ul style="list-style-type: none"> <li>ServerView Suite - Deploy <ul style="list-style-type: none"> <li>SV Installation Manager</li> <li>SV Scripting Toolkit</li> <li>SV Deployment Manager (30-day trial version)</li> </ul> </li> <li>ServerView Suite - Control <ul style="list-style-type: none"> <li>SV Operations Manager incl. PDA and ASR &amp; R (Prefailure and Analysis; Automatic Server Recovery and Restart)</li> <li>SV Performance Management</li> <li>SV Power Management</li> <li>SV RAID Manager</li> </ul> </li> <li>ServerView Suite - Maintain <ul style="list-style-type: none"> <li>SV Remote Management (iRMC)</li> <li>SV Update Management (BIOS, Firmware, Windows Drives and SV Agents)</li> <li>SV Asset Management</li> <li>SV Online Diagnostics</li> </ul> </li> <li>ServerView Suite - Integrate <ul style="list-style-type: none"> <li>SV Integration packs e.g. for Microsoft System Center, Nagios, HP, SIM, HP NNM, IBM Tivoli, Altiris</li> </ul> </li> <li>Deployment Solutions and others</li> </ul>
<b>Option</b>	<ul style="list-style-type: none"> <li>ServerView Suite - Deploy <ul style="list-style-type: none"> <li>SV Deployment Manager (full version)</li> </ul> </li> <li>ServerView Suite - Maintain <ul style="list-style-type: none"> <li>iRMC Advanced Pack incl. Advanced Video Redirection (AVR) and Remote Storage</li> </ul> </li> <li>ServerView Suite - Dynamize <ul style="list-style-type: none"> <li>SV Virtual-IO Manager (VIOM)</li> <li>SV Resource Orchestrator Virtual Edition (ROR VE)</li> <li>SV Resource Orchestrator Cloud Edition (ROR CE)</li> </ul> </li> <li>ServerView Suite - Integrate <ul style="list-style-type: none"> <li>SV Integration pack for Fujitsu ManageNow® solution</li> </ul> </li> </ul>
<b>Server Management notes</b>	Regarding Operating System dependencies and product details for ServerView Suite Software Products see dedicated Product Data sheets.

**Dimensions / Weight**

<b>Floor-stand (W x D x H)</b>	205 x 584 x 444 mm
<b>Rack (W x D x H)</b>	482 x 570 x 220 mm
<b>Dimension notes</b>	Floorstand Width 306 mm with tilt protection; depth measured excludes handles on redundant PSU. Rack depth excludes handles of redundant PSU and rack front.
<b>Height Unit Rack</b>	5 U

**Dimensions / Weight**

Weight	21-28 kg
Weight notes	Actual weight may vary depending on configuration
Rack integration kit	Rack integration kit as option

**Dimensions / Weight / Environmental  
(Base unit specific)****Environmental**

Operating ambient temperature	10 - 35°C
Operating relative humidity	10 - 85 % (non condensing)
Operating environment	FTS 04230 Guideline for Data Center (installation locations)
Operating environment Link	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473">http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473</a>
Sound pressure (LpAm)	SATA: 25 dB(A) idle mode/ 25 dB(A) operation mode; SAS: 31 dB(A) idle mode/ 33 dB(A) operation mode
Sound power (LWAd; 1B = 10dB)	SATA: 4.2 B idle mode/ 4.2 B operation mode ; SAS: 4.9 B idle mode/ 5.1 B operation mode
Noise notes / description	May vary according to configuration

**Electrical values**

Standard power supply output	300W (90% efficiency)
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 (max. configuration)	216 W
Apparent power (max. configuration)	247 VA
Heat emission	777.6 kJ/h (737.0 BTU/h)
Power Supply Notes	The active power and apparent power values may change according to configuration.

**Compliance**

Europe	CE Class A *
USA/Canada	CSA us ULc/us FCC Class A
Global	CB RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment)
Japan	VCCI
Russia	GOST-R
South Korea	KCC
China	CCC (planned)
Australia/New Zealand	C-Tick
Taiwan	BSMI
Compliance notes	* 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.
Compliance link	<a href="http://sp.ts.fujitsu.com/sites/certificates/">http://sp.ts.fujitsu.com/sites/certificates/</a>

# Components

<b>Storage disks</b>	SSD SATA, 3 Gb/s, 64 GB, SLC, hot-plug, 2.5-inch, enterprise
	HDD SATA, 6 Gb/s, 500 GB, 7200 rpm, hot-plug, 3.5-inch, economic
	HDD SATA, 6 Gb/s, 250 GB, 7200 rpm, hot-plug, 3.5-inch, economic
	HDD SATA, 3 Gb/s, 500 GB, 7200 rpm, hot-plug, 3.5-inch, business critical
	HDD SATA, 3 Gb/s, 500 GB, 7200 rpm, hot-plug, 2.5-inch, business critical
	HDD SATA, 3 Gb/s, 320 GB, 5400 rpm, hot-plug, 2.5-inch, economic
	HDD SATA, 3 Gb/s, 250 GB, 7200 rpm, hot-plug, 2.5-inch, business critical
	HDD SATA, 3 Gb/s, 160 GB, 5400 rpm, hot-plug, 2.5-inch, economic
	HDD SATA, 3 Gb/s, 2 TB, 7200 rpm, hot-plug, 3.5-inch, business critical
	HDD SATA, 3 Gb/s, 1 TB, 7200 rpm, hot-plug, 3.5-inch, business critical
	HDD SATA, 3 Gb/s, 1 TB, 7200 rpm, hot-plug, 2.5-inch, business critical
	HDD SAS, 6 Gb/s, 900 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 600 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise
	HDD SAS, 6 Gb/s, 600 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 450 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise
	HDD SAS, 6 Gb/s, 450 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 300 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise
	HDD SAS, 6 Gb/s, 300 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 300 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 146 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 6 Gb/s, 146 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise	
HDD SAS, 6 Gb/s, 73 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise	
<b>Hard disk notes</b>	One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. Accessible capacity may vary, also depending on used software. No mix of SAS and 'Eco' SATA HDDs possible
<b>Backup Drives</b>	DDS Gen5, 36 GB, 3 MB/s, half height, USB 2.0
	DDS Gen6, 80 GB, 6 MB/s, half height, USB 2.0
	RDX Drive, 160 GB, 320 GB, 500 GB, 1 TB, 25 MB/s, half height, USB 2.0
<b>Optical drives</b>	Blu-ray Disc™ Triple Writer, (4x BD-RW; 16x DVD; 40x CD), half height, 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
<b>SCSI / SAS Controller</b>	SAS Ctrl. 6 Gb 8 ports ext. PCIe Gen2 x8
<b>RAID Controller</b>	RAID 5/6 Ctrl., HDD SAS 6 Gb, LSI, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, Optional BBU (based on LSI SAS2108)
	Integrated RAID 5/6 Ctrl., HDD SAS 6 Gb, Fujitsu, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, Optional BBU (based on LSI SAS2108)
	Integrated RAID 0/1 Ctrl., SAS/SATA 6 Gb, Fujitsu, 8 ports int. RAID level: 0, 1, 10, No BBU support (based on LSI SAS2008)
	Integrated RAID 0/1 Ctrl., SAS/SATA 3 Gb, 8 ports int. RAID level: 0, 1, 1E, No BBU support (based on LSI 1068e)
	Integrated RAID 0/1 Ctrl., SAS/SATA 3 Gb, 4 ports int. RAID level: 0, 1, 1E, No BBU support (based on LSI 1064e)
	Ethernet Ctrl. 1 x 1 Gb Intel® Gigabit CT Desktop Adapter
	Ethernet Ctrl. 2 x 10 Gb Fujitsu Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+
Ethernet Ctrl. 2 x 1 Gb Fujitsu LAN Adapter D2735-2	
Ethernet Ctrl. 4 x 1 Gb Fujitsu Eth Ctrl 4x1Gbit PCIe x4 D2745 Cu	

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**Rack infrastructure**

Cable Arm 2U for PCR M1 S and 3rd party racks  
Rackmount kit full extraction (760mm), tool less mounting  
Cable Management for asym. 19-inch PRIMECENTER Racks

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**Warranty**

**Standard Warranty** 1 year  
**Service level** On-site Service (depending on country)

**Maintenance and Support Services - the perfect extension**

**Recommended Service** 7x24, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.  
**Service Lifecycle** 5 years  
**Service Weblink** <http://www.fujitsu.com/fts/services>

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## More information

### Fujitsu platform solutions

In addition to Fujitsu PRIMERGY TX140 S1, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

#### Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

#### Computing Products

[www.fujitsu.com/global/services/computing/](http://www.fujitsu.com/global/services/computing/)

#### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

### More information

Learn more about Fujitsu PRIMERGY TX140 S1, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
<http://www.fujitsu.com/PRIMERGY>

### 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 resolve issues of environmental energy efficiency through IT. Please find further information at <http://www.fujitsu.com/global/about/environment/>



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