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 TX120 S3p
PRIMERGY TX120 S3p: For small environments with high demands. It is the perfect server for environments where space, high server functionality and low TCO are crucial. The TX120 S3p is an excellent choice for smaller retail premises, branch offices, or in other contexts where strict legal controls apply, e.g. medical, legal or financial services. Besides sporting a power supply with 94% efficiency and 0-watt functionality, the TX120 S3p keeps running costs and the environmental impacts low. The unique combination of ultra-compact form factor, Intel® Xeon® processor E3 series performance, high availability features and low TCO, make it ideal for demanding environments where space is scarce.
# Features & Benefits

<table>
<thead>
<tr>
<th>Main Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Its ultra-compact form factor, means that the PRIMERGY TX120 S3p fits everywhere, in either tower or desktop position</td>
<td>Space-saving: ideal for office, retail and smaller environments</td>
</tr>
<tr>
<td>2x 1Gigabit LAN as standard and optional 2.5-inch hot-plug hard disks</td>
<td>High-availability to keep your business processes going</td>
</tr>
<tr>
<td>The Intel® Xeon® processor E3 family-based platform and the highly efficient power supply unit with 0-Watt functionality</td>
<td>High performance and energy efficiency</td>
</tr>
<tr>
<td>The onboard remote management controller (iRMC S3), and the optional front service LAN, makes it easier to service your TX120 S3p</td>
<td>High manageability and serviceability - saving you time</td>
</tr>
<tr>
<td>Available with two different base units with either up to 2x 3.5-inch hard disks or up to 4x 2.5-inch hard disks</td>
<td>Flexibly adapts to your storage needs</td>
</tr>
</tbody>
</table>
Technical details

**PRIMERGY TX120 S3p**

**Base unit**
- PRIMERGY TX120 S3
- PRIMERGY TX120 S3p LFF

**Housing types**
- Ultra-compact form-factor

**Storage drive architecture**
- 4x 2.5-inch SAS/SATA
- 2x 3.5-inch SATA (non hot-plug)

**Mainboard**

**Mainboard type**
- D3049

**Chipset**
- Intel® C200

**Processor**
- 1 x Intel® Xeon® processor E3-1220v2 (2C/4T, 2.30 GHz, TLC: 3 MB, Turbo: Yes, 1,600 MHz, 17 W)
- 1 x Intel® Xeon® processor E3-1230v2 (4C/8T, 3.30 GHz, TLC: 8 MB, Turbo: Yes, 1,600 MHz, 69 W)
- 1 x Intel® Xeon® processor E3-1240v2 (4C/8T, 3.40 GHz, TLC: 8 MB, Turbo: Yes, 1,600 MHz, 69 W)
- 1 x Intel® Xeon® processor E3-1265Lv2 (4C/8T, 2.50 GHz, TLC: 8 MB, Turbo: Yes, 1,600 MHz, 45 W)

**Memory slots**
- 4

**Memory slot type**
- UDIMM (DDR3)

**Memory capacity (min. - max.)**
- 2 GB - 32 GB

**Memory protection**
- ECC

**Memory notes**
- Mix and match possible; with dual channel operation better performance (2 modules with equal capacity necessary). Single channel (1 module) configuration possible.

**Memory options**
- 2 GB (1 module(s) 2 GB) DDR3, unbuffered, ECC, 1,600 MHz, PC3-12800, UDIMM, single rank
- 4 GB (1 module(s) 4 GB) DDR3, unbuffered, ECC, 1,600 MHz, PC3-12800, UDIMM, dual rank
- 8 GB (1 module(s) 8 GB) DDR3, unbuffered, ECC, 1,600 MHz, PC3-12800, UDIMM, dual rank

**Interfaces**

**USB 2.0 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 RS-232-C

**LAN / Ethernet**
- 2

**Management LAN (RJ45)**
- 1 x dedicated management LAN port for iRMC S3 (10/100/1000 Mbit/s)
- Optional front Service LAN port (10/100 Mbit/s)

**Onboard or integrated Controller**

**RAID controller**
- 4 port SATA with RAID 0/1/10 for HDDs

**SATA Controller**
- Intel® C200

**SATA controller type notes**
- 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.

**Remote Management Controller**
- Integrated Remote Management Controller (iRMC S3, 32 MB attached memory incl. graphics controller)
  - IPMI 2.0 compatible

**Trusted Platform Module (TPM)**
- optional TPM

**Slots**

**PCI-Express 3.0 x16**
- 1 x Low profile

**PCI-Express 2.0 x1 (mech. x4)**
- 1 x Low profile

**PCI-Express 2.0 x4 (mech. x8)**
- 1 x Low profile (In SAS configuration 1x PCI-Express slot occupied by modular RAID controller.)

**PCI-slots**
- 1 x Low profile (PCI 32-bit / 33 MHz, 5 V)
### Slots

**Slot Notes**
In configurations with Intel® Core™ i3 or Intel® Pentium® processors slots are operated with PCI-Express 2.0.

### Drive bays

**Storage drive bays**
4 x 2.5-inch hot-plug SAS/SATA or 2x 3.5-inch non hot-plug SATA.

**Storage drive bay configuration**
Not upgradeable in the field.

**Accessible drive bays**
1 x 3.5/1.6-inch for backup devices
1 x 5.25/0.5-inch for CD-RW/DVD

**Optional hard disk bays**
None

**Number of fans**
3

**Fan notes**
Processor fan, rear fan, drive fan

### Operating panel

**Operating buttons**
On/off switch

**Status LEDs**
Power (amber / green)

### Operating Systems and Virtualization Software

**Certified or supported operating systems and virtualization software**
- 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
- SUSE® Linux Enterprise Server 11
- SUSE® Linux Enterprise Server 10
- Red Hat® Enterprise Linux 7
- Red Hat® Enterprise Linux 6
- Red Hat® Enterprise Linux 5

**Operating system release link**

**Operating system notes**
Support of other Linux derivatives on demand
Red Hat® certification starting with version 5.8 / 6.2

### Server Management

**Standard**
ServerView Remote Management (iRMC)

**Option**
ServerView Suite - Maintain
  - iRMC Advanced Pack incl. Advanced Video Redirection (AVR), video capturing and Virtual Media
ServerView Suite - Dynamize
  - Virtual-I/O Manager (VIOM)
  - Resource Orchestrator Virtual Edition (ROR VE)
  - Resource Orchestrator Cloud Edition (ROR CE)
ServerView Suite - Integrate
  - Integration pack for Fujitsu ManageNow® solution

### Dimensions / Weight

**Floor-stand (W x D x H)**
98 x 399 x 340 mm

**Dimension notes**
without feet

**Weight**
up to 10 kg

**Weight notes**
Actual weight may vary depending on configuration

### Environmental

**Operating ambient temperature**
10 - 35 °C

**Operating relative humidity**
10 - 85 % (non condensing)
Environmental

Operating environment  
FTS 04230 – Guideline for Data Center (installation specification)

Operating environment Link  

Sound pressure (LpAm)  
SATA: 22 dB(A) idle mode / 23 dB(A) operating mode; SAS: 33 dB(A) idle mode / 35 dB(A) operating mode

Sound power (LWAd; 1B = 10dB)  
SATA: 3.7 B idle mode / 3.7 B operating mode; SAS: 4.9 B idle mode/ 5 B operating mode

Noise notes  
Noise values may vary according to configuration

Electrical values

Power supply configuration  
1x standard power supply - with 0-Watt functionality

Standard power supply output  
250 W

Rated voltage range  
100 V - 240 V

Rated frequency range  
47 Hz - 63 Hz

Rated current max.  
100V-240V/6A-3A

Rated current in basic configuration  
100V-240V/0.25A-0.22A

Active power (max. configuration)  
147 W

Apparent power (max. configuration)  
152 VA

Heat emission  
529.2 kJ/h (501.6 BTU/h)

Compliance

Global  
CB
RoHS (Restriction of hazardous substances)
WEEE (Waste electrical and electronical equipment)

Europe  
CE Class A *

USA/Canada  
CSA us
ULc/us
FCC Class A

South Korea  
KC (planned)

China  
CCC (planned)

Compliance link  
http://globalsp.ts.fujitsu.com/sites/certificates

Compliance notes  
Above mentioned compliances are planned but not available at preliminary stage.

There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request.

* Warning:
This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
## Components

### Storage drives

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity</th>
<th>Speed</th>
<th>Use</th>
<th>Hot-Swap</th>
<th>Size</th>
<th>Enterprise/Business Critical</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSD SATA</td>
<td>32 GB</td>
<td>3 Gb/s</td>
<td>Hot-plug, 2.5-inch</td>
<td>Enterprise</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDD SATA</td>
<td>500 GB</td>
<td>6 Gb/s</td>
<td>Non-hot plug, 3.5-inch</td>
<td>Economic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDD SATA</td>
<td>3 Gb/s</td>
<td>6 Gb/s</td>
<td>Non-hot plug, 3.5-inch</td>
<td>Business Critical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDD SATA</td>
<td>250 GB</td>
<td>6 Gb/s</td>
<td>Non-hot plug, 3.5-inch</td>
<td>Economic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDD SATA</td>
<td>3 TB</td>
<td>6 Gb/s</td>
<td>Non-hot plug, 3.5-inch</td>
<td>Business Critical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDD SATA</td>
<td>2 TB</td>
<td>6 Gb/s</td>
<td>Non-hot plug, 3.5-inch</td>
<td>Business Critical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDD SATA</td>
<td>1 TB</td>
<td>6 Gb/s</td>
<td>Non-hot plug, 3.5-inch</td>
<td>Business Critical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDD SATA</td>
<td>1 TB</td>
<td>6 Gb/s</td>
<td>Hot-plug, 2.5-inch</td>
<td>Business Critical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDD SAS</td>
<td>900 GB</td>
<td>6 Gb/s</td>
<td>Hot-plug, 2.5-inch</td>
<td>Enterprise</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDD SAS</td>
<td>600 GB</td>
<td>6 Gb/s</td>
<td>Hot-plug, 2.5-inch</td>
<td>Enterprise</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDD SAS</td>
<td>450 GB</td>
<td>6 Gb/s</td>
<td>Hot-plug, 2.5-inch</td>
<td>Enterprise</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDD SAS</td>
<td>300 GB</td>
<td>6 Gb/s</td>
<td>Hot-plug, 2.5-inch</td>
<td>Enterprise</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDD SAS</td>
<td>300 GB</td>
<td>6 Gb/s</td>
<td>Hot-plug, 2.5-inch</td>
<td>Enterprise</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDD SAS</td>
<td>146 GB</td>
<td>6 Gb/s</td>
<td>Hot-plug, 2.5-inch</td>
<td>Enterprise</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDD SAS</td>
<td>73 GB</td>
<td>6 Gb/s</td>
<td>Hot-plug, 2.5-inch</td>
<td>Enterprise</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDD SAS</td>
<td>73 GB</td>
<td>6 Gb/s</td>
<td>Hot-plug, 2.5-inch</td>
<td>Enterprise</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Backup Drives

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity</th>
<th>Speed</th>
<th>Use</th>
<th>Hot-Swap</th>
<th>Size</th>
<th>Enterprise/Business Critical</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDS Gen5</td>
<td>36 GB</td>
<td>3 MB/s</td>
<td>Half-height, USB 2.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DDS Gen6</td>
<td>80 GB</td>
<td>6 MB/s</td>
<td>Half-height, USB 2.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RDX Drive</td>
<td>160 GB</td>
<td>25 MB/s</td>
<td>Half-height, USB 2.0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Optical drives

<table>
<thead>
<tr>
<th>Type</th>
<th>Features</th>
<th>Drives</th>
<th>Int. Sata</th>
<th>Size</th>
<th>SAS / SATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blu-ray Disc™ Triple Writer</td>
<td>(6x BD-ROM; 8x DVD; 24x CD)</td>
<td>(36)</td>
<td>SATA I</td>
<td>6 Gb/s</td>
<td>8 ports ext.</td>
</tr>
<tr>
<td>DVD Super Multi</td>
<td>(8xDVD/DVD+RW, 6xDVD-RW, 5xDVD-RAM, 24xCD/CD-R, 16xCD-RW)</td>
<td>(80)</td>
<td>SATA I</td>
<td>6 Gb/s</td>
<td>8 ports int.</td>
</tr>
</tbody>
</table>

### SCSI / SAS Controller

<table>
<thead>
<tr>
<th>Type</th>
<th>Features</th>
<th>Drives</th>
<th>Int. Sata</th>
<th>Size</th>
<th>SAS / SATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAS Ctrl. 6 Gb/s 8 ports ext. PCIe x8</td>
<td>RAID 5/6 Ctrl., SAS/SATA 6 Gb/s, Fujitsu RAID Ctrl SAS 6G 5/6 512MB (D2616), 8 ports int.</td>
<td>(1)</td>
<td>PCIe</td>
<td>6 Gb/s</td>
<td>8 ports int.</td>
</tr>
</tbody>
</table>

### RAID Controller

<table>
<thead>
<tr>
<th>Type</th>
<th>Features</th>
<th>Drives</th>
<th>Int. Sata</th>
<th>Size</th>
<th>SAS / SATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAID 0/1 Ctrl.</td>
<td>Fujitsu RAID Ctrl SAS 6G 0/1 (D2607), 8 ports int.</td>
<td>(2)</td>
<td>PCIe</td>
<td>6 Gb/s</td>
<td>4 ports int.</td>
</tr>
<tr>
<td>RAID 0/1 Ctrl.</td>
<td>Fujitsu RAID Ctrl SAS 6G 0/1 (D2607), 8 ports int.</td>
<td>(2)</td>
<td>PCIe</td>
<td>6 Gb/s</td>
<td>4 ports int.</td>
</tr>
</tbody>
</table>

### Communication, Network

<table>
<thead>
<tr>
<th>Type</th>
<th>Features</th>
<th>Drives</th>
<th>Int. Sata</th>
<th>Size</th>
<th>SAS / SATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethernet Ctrl. 1 x 1 Gbit/s PCIe 1.1 x 1 ( Intel® )</td>
<td>Fujitsu RAID Ctrl SAS 6G 0/1 (D2607), 8 ports int.</td>
<td>(1)</td>
<td>PCIe</td>
<td>6 Gb/s</td>
<td>4 ports int.</td>
</tr>
<tr>
<td>Ethernet Ctrl. 2 x 10 Gbit/s PCIe 2.0 x8 ( Fujitsu )</td>
<td>Fujitsu RAID Ctrl SAS 6G 0/1 (D2607), 8 ports int.</td>
<td>(1)</td>
<td>PCIe</td>
<td>6 Gb/s</td>
<td>4 ports int.</td>
</tr>
</tbody>
</table>

### Warranty

<table>
<thead>
<tr>
<th>Type</th>
<th>Features</th>
<th>Drives</th>
<th>Int. Sata</th>
<th>Size</th>
<th>SAS / SATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethernet Ctrl. 2 x 1 Gbit/s PCIe x4 ( Fujitsu )</td>
<td>Fujitsu RAID Ctrl SAS 6G 0/1 (D2607), 8 ports int.</td>
<td>(1)</td>
<td>PCIe</td>
<td>6 Gb/s</td>
<td>4 ports int.</td>
</tr>
</tbody>
</table>

### Service level

<table>
<thead>
<tr>
<th>Type</th>
<th>Features</th>
<th>Drives</th>
<th>Int. Sata</th>
<th>Size</th>
<th>SAS / SATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethernet Ctrl. 4 x 1 Gbit/s PCIe x4 ( Fujitsu )</td>
<td>Fujitsu RAID Ctrl SAS 6G 0/1 (D2607), 8 ports int.</td>
<td>(1)</td>
<td>PCIe</td>
<td>6 Gb/s</td>
<td>4 ports int.</td>
</tr>
</tbody>
</table>
More information

Fujitsu OPTIMIZATION Services
In addition to Fujitsu PRIMERGY TX120 S3p, 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/

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

More information
Learn more about Fujitsu PRIMERGY TX120 S3p, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/fts

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