Data Sheet
FUJITSU TeamPoS 7000 S-Series Retail PoS Controller

Small Footprint, high performance, great connectivity and low energy consumption

The Fujitsu TeamPoS 7000 S-Series modular controller is available with a range of Intel® 4th generation Core™ processors from Celeron® to Core™ i5 to support the most demanding retail applications. With a volume of just 7 litres, it can be simply deployed in the most challenging environments. Enhanced connectivity, with powered USB and Serial ports, enables a full complement of retail peripherals to be connected and powered directly from the unit, removing the need for external power bricks so simplifying deployment and improving reliability. With its 90%+ efficient power supply, energy costs and heat output are minimised to deliver a low TCO and lengthen service life.

Compact Design with horizontal or vertical deployment
- Simple installation in the most constrained of environments. Can replace existing equipment without furniture changes. Provides maximum space at counter for other equipment, or display material

Intel® 4th Generation Core™ technology
- Future proof processing power from Intel® Celeron® processors to Intel® Core™ i5 processors scaling across the organisation. Latest AMT remote management technology reduce cost of ownership and helps increase availability

Great connectivity with full complement of retail ports and integrated dual storage drives
- Enhanced retail connectivity removes need for external power bricks and enables operation from single power outlet. This reduces installation costs, lowers energy consumption and improves reliability. Dual SSD / HDD storage drives with RAID delivers high levels of data protection

90% efficiency integrated power supply
- Reduces energy costs and carbon footprint. Lower heat output reduces store cooling costs and improves reliability. Patented power management controls processing power during peak peripheral demand to ensure reliable operation

Made in Germany in state of the art automated factory
- Quality manufacturing and engineering processes, with selected long-life components, ensures trouble-free 24x7 operation in retail environment
## Components

**Processor**

- Intel® Core™ i5-4590T processor (4 Cores / 4 Threads, 2.00 GHz, up to 3.0 GHz, 6 MB, Intel® HD Graphics 4600)
- Intel® Core™ i5-4570TE processor (2 Cores / 4 Threads, 2.70 GHz, up to 3.3 GHz, 4 MB, Intel® HD Graphics 4600)
- Intel® Core™ i3-4330TE processor (2 Cores / 4 Threads, 2.40 GHz, 4 MB, Intel® HD Graphics 4600)
- Intel® Celeron® processor G1820TE (2 Cores / 2 Threads, 2.20 GHz, 2 MB, Intel® HD Graphics)

*with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other variables)

**Operating systems**

- POSReady 2009
- POSReady 7
- Windows Embedded 8.1 Industry
- Windows 8.1 Pro
- Windows 7 Professional 64-bit
- Windows 7 Professional 32-bit

**Operating system compatible**

- openSUSE Linux

**Memory modules**

- 4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1,600 MHz, PC3-12800, DIMM
- 8 GB (1 module(s) 8 GB) DDR3, unbuffered, non-ECC, 1,600 MHz, PC3-12800, DIMM

**Hard disk drives (internal)**

- SSD SATA III, 256 GB, 2.5-inch
- SSD SATA III, 128 GB, 2.5-inch
- HDD SATA III, 7,200 rpm, 500 GB, 2.5-inch

**Graphics**

- DP to DVI-D (single link) Adapter Cable

**Drives (optional)**

- DVD Super Multi ultra slim

**Interface add on cards/components (optional)**

- Gigabit Ethernet PCIe x1, DS
- Dual serial card PCIe x1, powered

## Base unit

**Base unit**

- TP7000S

**Mainboard**

- Mainboard type: D3224-P
- Formfactor: proprietary
- Chipset: Intel® Q87
- Processor socket: LGA 1150
- Processor quantity maximum: 1
- Supported capacity RAM (max.): 32 GB
- Memory slots: 4 DIMM (DDR3)
- Memory frequency: 1,600 MHz
- Memory notes: Dual channel support
  For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same.
- LAN: 10/100/1,000 MBit/s Intel® I21BLM
- BIOS version: AMI Aptio 4.6
### Mainboard

<table>
<thead>
<tr>
<th>BIOS features</th>
<th>BIOS Flash EPROM update by software</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Recovery BIOS</td>
</tr>
<tr>
<td></td>
<td>Unified Extensible Firmware Interface (UEFI)</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Audio type</th>
<th>On board</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio codec</td>
<td>Realtek ALC671</td>
</tr>
<tr>
<td>Audio features</td>
<td>Internal speaker supports audio playback, High Definition audio</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>I/O controller on board</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial ATA total</td>
</tr>
<tr>
<td>thereof SATA III</td>
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</tbody>
</table>

### Controller functions

- Serial ATA II (3 Gbit)
- Serial ATA III (6 Gbit)
- NCQ
- AHCI

### Interfaces

**Audio:**
- line-in: 1
- line-out: 1
- microphone: 1
- headphone: 1

**USB:**
- 2.0 total: 10
- 3.0 total: 4
- Front:
  - 2x 2.0/ 2x 3.0
- Rear:
  - 4x 2.0/ 2x 3.0 and 3x powered USB 12V, 1x powered USB 24V

**Cash Drawer**
- 1x (RJ11 connector), Dual cash drawer support

**VGA**
- 1 (via DVI to VGA adapter, part of shipment)

**DisplayPort**
- 1

**DVI**
- 1 (DVI-I)

**Serial (RS-232)**
- 2 (5V/12V powered, 9pin, 16 byte FIFO, 16550 compatible)

**Mouse / Keyboard (PS/2)**
- 2

**Ethernet (RJ-45)**
- 1

### Drive bays

- Drive bays total: 2
- Notes: Slim optical disc drive instead of second HDD/SSD

### Slots

- PCI-Express 3.0 x16: 1 x (220 mm / 8.66 inch) Low profile

### Graphics on board

- Shared video memory: up to 1,782 MB

### TFT resolution

#### VGA
- 1,024 x 768 pixel
- 1,280 x 1,024 pixel
- 1,360 x 768 pixel
- 1,440 x 900 pixel
- 1,600 x 900 pixel
- 1,600 x 1,200 pixel
- 1,680 x 1,050 pixel
- 1,920 x 1,080 pixel

#### DVI
- 1,280 x 1,024 pixel
- 1,440 x 900 pixel
- 1,600 x 900 pixel
- 1,680 x 1,050 pixel
- 1,920 x 1,080 pixel
- 1,920 x 1,200 pixel
**Graphics on board**

**TFT resolution (DisplayPort):**
- 1,280 x 1,024 pixel
- 1,360 x 768 pixel
- 1,440 x 900 pixel
- 1,600 x 900 pixel
- 1,680 x 1,050 pixel
- 1,920 x 1,080 pixel
- 1,920 x 1,200 pixel
- 2,560 x 1,440 pixel
- 2,560 x 1,600 pixel

**Graphics features:**
- Dual display support
- DirectX® 11.1
- HDCP support
- OpenCL® 1.2
- OpenGL® 4.0
- One DisplayPort connector can be converted to DVI-D or HDMI with an optional external adapter
- For multi-monitoring mode, graphics card and integrated graphics run in parallel (Microsoft® Windows® 7 or Windows 8)

**Graphics notes:**
- Up to 1 GB dedicated video memory (main memory owned and locked for graphics use)
- Tested resolutions, depending on display type, additional resolutions and frequencies possible
- Shared memory depending on main memory size and operating system
- Resolution (color depth up to 32 Bit/pixel)
- For TFT we recommend using 60Hz

**Electrical values**

**Power efficiency note:**
Power supply efficiency (at 230V; 20% / 50% / 100% load) : 87% / 90% / 87%

**Rated voltage range:**
100 V - 240 V

**Rated frequency range:**
50 Hz - 60 Hz

**Operating voltage range:**
90 V - 264 V

**Operating line frequency range:**
47 Hz - 63 Hz

**Max. output of single power supply:**
225 W

**Power factor correction/active power:**
active

**Monitor outlet:**
No

**Power consumption**

**Power consumption note:**
See white paper Energy Consumption

**Link to Energy White Paper:**
http://docs.ts.fujitsu.com/dl.aspx?id=e914f879-a508-422a-98ac-e3c313445d7d

**Heat dissipation**

**Heat dissipation notes:**
See white paper Energy Consumption

**Noise emission**

**Standard noise emission:**
2x2 GB, HDD, ODD, Windows
According to ISO 7779:2010, ECMA-74

**Standard noise notes / description:**
A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))

**Standard noise operation mode: CPU 50% load:**
3.5B / 22 dB(A) Bystander; 25 dB(A) Operator position

**Standard noise operation mode: HDD load:**
3.5B / 22 dB(A) Bystander; 25 dB(A) Operator position

**Standard noise operation mode: Idle mode:**
3.5B / 21 dB(A) Bystander; 24 dB(A) Operator position

**Standard noise operation mode: ODD load:**
4.4 B / 30 dB(A) Bystander; 35 dB(A) Operator position

**Standard noise operation mode: Office applications 2.0:**
3.5B / 22 dB(A) Bystander; 24 dB(A) Operator position

**Dimensions / Weight / Environmental**

**Dimensions (W x D x H):**
265 x 315 x 88 mm
10.44 x 12.4 x 3.47 inch

**Operating position:**
Vertical / horizontal (no feet needed)

**Weight:**
6 kg
### Dimensions / Weight / Environmental

<table>
<thead>
<tr>
<th>Weight (lbs)</th>
<th>13.2 lbs</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Operating ambient temperature</th>
<th>5 - 40 °C (41 - 104 °F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating relative humidity</td>
<td>5 - 85 % (relative humidity)</td>
</tr>
</tbody>
</table>

### Compliance

<table>
<thead>
<tr>
<th>Product</th>
<th>TP7000S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>USD</td>
</tr>
<tr>
<td>Germany</td>
<td>GS</td>
</tr>
<tr>
<td>Europe</td>
<td>CE</td>
</tr>
<tr>
<td>USA/Canada</td>
<td>FCC Class B, cCSAus</td>
</tr>
</tbody>
</table>

**Global**
RoHS (Restriction of hazardous substances)
WEEE (Waste electrical and electronic equipment)
Microsoft Operating Systems (HCT / HCL entry / WHQL)

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

### Additional Software

**Additional software (preinstalled)**
Adobe® Reader® (pdf reader)
Win7: Fujitsu Recovery (hard disk based recovery)
Win8: Microsoft Push Button Recovery (hard disk based recovery)

**Additional software (optional)**
Recovery DVD for Windows®
Drivers & Utilities DVD (DUDVD)

### Manageability

**Manageability technology**
DeskUpdate Driver management
PXE 2.1 Boot code
Wake up from S5 (off mode)
WoL (Wake on LAN)

**Manageability software**
DeskView Client
DeskView Instant BIOS Management

**DeskView components**
Inventory Management
BIOS Management
Driver Management
Security Management
Alarm Management

**Supported standards**
PXE

**Manageability link**
http://www.fujitsu.com/fts/manageability

### Security

**Physical Security**
Integrated cabinet lock (optional)

**System and BIOS Security**
EraseDisk (optional)
Boot sector virus protection
Write protect option for the Flash EPROM
Embedded security (TPM 1.2)
Control of all USB interfaces
External USB ports can be disabled separately
Control of external interfaces

**User Security**
User and supervisor BIOS password
Hard disk password

### Serviceability

EasyFix
EasyChange for HDD

### Packaging information

**Packaging dimension (mm)**
467 x 265 x 540 mm

**Packaging dimension (inch)**
18.39 x 10.43 x 21.26 inch

**Max. quantity / pallet**
28

**Material - Weight (g) Carton**
940 g
Packaging information

| Material - Weight (lbs) Carton | 2.07 lbs |
| Material - Weight (g) EPS / PS | 190 g |
| Material - Weight (lbs) EPS / PS | 0.42 lbs |
| Material - Weight (g) PE | 60 g |
| Material - Weight (lbs) PE | 0.13 lbs |

Packaging notes

printed user documentation is bleached in chlorine free process

Recommended Accessories
A new world is emerging, where everyone and everything is interlinked, sharing information. This hyperconnected world forms the foundation of modern retail. It is all around us and means retailing without walls for a new, empowered consumer. This is Connected Retail.

In response, Fujitsu is focusing on three core capabilities that ultimately deliver retailers a differentiated customer experience.

Retail Core Capabilities
- Innovative retail solutions – to support and future proof the customer experience in today’s omni-channel world; this includes Fujitsu Market Place – our omni-channel PoS application – and new solutions from our innovation labs around the world
- Connected enterprise – within the store, between the front and back office, and between multiple vendors to deliver a seamless and integrated customer journey, working enterprise solutions, and outcome-based enterprise services
- Global delivery – the assets and capabilities to deliver consistent cross-border solutions

Learn more about Fujitsu TeamPos 7000 S-Series, 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/global/about/environment

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