Data Sheet
FUJITSU TeamPoS 7000 S-Series Model 520 Retail PoS Controller

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

The Fujitsu TeamPoS® 7000 S-Series modular controller incorporates Intel® 4th generation Core™ technology to support the most demanding retail applications. With a volume of just 7 liters, 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 from Celeron to i5 vPro™
- Future proof processing power that scales 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

Operating systems	
Operating system	POSReady 7 POSReady 2009 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	2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1,600 MHz, PC3-12800, DIMM
	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
	mSATA, 64 GB, Flash drive (MLC technology)
	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 520
Mainboard	
Mainboard type	D3224-P
Formfactor	proprietary
Processor	Intel® Core™ i5-4570TE processor (2 Cores / 4 Threads, 2.7 GHz, up to 3.3 GHz, 4 MB, Intel® HD Graphics 4600)
Chipset	Intel® Q87
Processor socket	LGA 1150
Processor quantity maximum	1
Memory slots	4 DIMM (DDR3)
Supported capacity RAM (max.)	32 GB
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® I218LM
BIOS version	AMI Aptio 4.6

Mainboard	
BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)
Audio type	On board
Audio codec	Realtek® ALC671
Audio features	Internal speaker supports audio playback, High Definition audio
I/O controller on board	
Serial ATA total	3
thereof SATA III	3
Controller functions	Serial ATA II (3 Gbit) Serial ATA III (6 Gbit) NCQ AHCI
Interfaces	
Audio: line-in	1
Audio: line-out	1
Front audio: microphone	1
Front audio: headphone	1
USB 2.0 total	10
USB 3.0 total	4
USB front	2x 2.0/ 2x 3.0
USB 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
Drive bay 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	
Graphics brand name	Intel® HD Graphics 4600
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
TFT resolution (DVI)	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

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 3,840 x 2,160 pixel
Graphics features	Dual display support DirectX® 11.1 HDCP support Open CL® 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
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

Dimensions / Weight / Environmental	
Operating position	Vertical / horizontal (no feet needed)
Weight	6 kg
Weight (lbs)	13.2 lbs
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	5 - 40 °C (41 - 104 °F)
Operating relative humidity	5 - 85 % (relative humidity)

Compliance	
Product	TP7000S 520
Model	USD
Germany	GS in progress
Europe	CE
USA/Canada	FCC Class B cCSAus
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	Intel® vPro™ 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

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
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

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Fujitsu in Retail

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 in 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

More information

Learn more about Fujitsu TeamPoS 7000 S-Series Model 520, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
http://www.fujitsu.com/us/industries/retail/

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

Green Policy Innovation

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