Fujitsu TP8 Modular PoS

- Superior Performance/Dollar with Intel 6th & 7th Generation Processors and the fastest PCIe NVME SSD storage
- Huge Scalability from entry to high-end - Supermarket, Specialty, Postal, Fuel and Convenience stores
- Ultra-Compact to fit in any environment, yet supports up to 18x USB and 3x Serial ports
- Highly Reliable and Serviceable: External access to storage, fast tool-free access to most parts
- Maximum Flexibility - Common design supports same software image on TP8 AIO and TP8 Modular PoS
- Low TCO over a Reliable 10+ years' Service Life, 5+ Years' Make plus extra 5+ Years' Service

INTRODUCTION

Fujitsu's new **TP8** Modular PoS is a next generation point-of-service solution for retailers who want the best performance, functionality, reliability, serviceability and maximum ROI to create an attractive world-class shopping environment.

The **TP8** with Intel 6th Generation "Skylake" CPUs, from Celeron to Core i5 models; protects investments in Windows 7 and Windows 8.x environments with migration to Windows 10. The **TP8** with 7th Generation "Kaby Lake" CPUs up to Core i5 gives maximum Windows 10 performance. With up to 32GB RAM, options for up to 2x hot-pluggable 2.5" SATA3 heritage drives, or 2x of the new, ~3x faster M.2 PCIe NVME SSD drives, the **TP8** is a future-proof PoS platform, or even a genuine store server. The **TP8** combines market-leading performance, peripheral and network connectivity in an ultra-compact and highly cost-effective package.

The **TP8** family of AIO and Modular systems share key components so the same software image runs on both, for flexible deployment and reduced support costs. The **TP8** Modular is hugely scalable with entry-spec including 3x video, 12x USB, 1 serial port, and optionally an extra 6x USB and 2x serial. The 300W power supply ensures the most demanding supermarket, postal and fuel/convenience stores can connect and power all peripherals.

The compact **TP8** Modular and sleek **TP8** AIO have modern aesthetics that easily blend with a range of retail environments - from fashionable and sophisticated to extremely rugged. Retailers want the flexibility of a single platform that supports multiple in-store touch-points, reducing installation and service costs, and providing fast, easy customer transactions for the ultimate interactive retail shopping experience.

The **TP8** Modular continues the Team**PoS** tradition of superior quality and reliability. Intelligent power management and advanced thermal designs, ensure cool reliable operation in the harshest retail conditions. High quality drives protect data and boost uptime, with dual-drive RAID1 data security supported on M.2 PCIe SSDs and 2.5" SATA3 drives, with hot-plug support on the 2.5" drives. The TP8 Modular is easy to service with fast tool-free access to many parts and a screwdriver to access the rest, e.g. external access to storage, thumb-screw opening of chassis. Intel Active Management Technology (AMT), vPro and SMBIOS enable remote management by leading enterprise suites.

Customer-focused interactive touch applications such as registration, promotions, and loyalty programs can be deployed easily with the **TP8** customer-facing dispersed display. Fujitsu offers a full set of leading-edge PoS peripheral options that have gone through extensive compatibility and reliability testing to maximize system scalability and flexibility. This robust peripheral portfolio gives retailers the ability to extend the useful life of the TP8 Modular through incremental modifications as business requirements change. Importantly, the **TP8** modular LCD design means the same LCD used on the AIO, with rear PC module, is also used on the dispersed LCD deployed with the **TP8** Modular, dramatically reducing sparing and servicing costs but with increased future-proofing.

High Performance and Connectivity:

- Latest Intel® processors, Celeron to Core i5; Q170 chipset
- 32GB RAM max. 2x high speed DDR4 SO-DIMM
- Up to 2x M.2 PCIe NVME SSD, up to 3x faster than SATA3
- 2x 2.5" SATA3 drive bays, hot-plug RAID1 capable
- Gigabit LAN. Optional dual-band Wireless LAN
- Ports: Min. 3 Video, 12 USB (8x5V, 3x12, 1x24), 1 Ser DB9 0/5/12V, Audio, Cash Drawer. Optional +6 USB +2 Serial.

Versatility:

- Ultra-compact & scales to maximum functionality
- SW Image compatible with TP8 AIO, deploy anywhere
- Open architecture; wide operating system support

Green:

- Processor power-saving modes
- Efficient power supply supporting many peripherals
- Green recyclable materials: WEEE & ROHS compliant
- Eco-friendly packaging and minimal documentation

Reliability, Serviceability, Manageability:

- Secure data with long-life SSDs or HDDs. RAID support
- External access to storage for fast upgrade or repair Remote-management support (AMT, vPro, SMBIOS)

TECHNICAL DETAILS

TP8 MODULAR POS

General Specifications

Processor options	Intel 6th Generation “Skylake” supporting Windows 7, 8.x and 10: - Celeron G3900, 51W, 2.8GHz, 2 core / 2 threads, 2MB, No AMT (Core i3-6100 for projects) - Core i5-6500, 65W, 3.2-3.6GHz, 4 core / 4 threads, 6MB, AMT & vPro Intel 7th Generation “Kaby Lake” supporting Windows 10 only: - Celeron G3930E, 54W, 2.9GHz, 2 core / 2 threads, 2MB, No AMT (Core i3-7101E for projects) - Core i5-7500, 65W, 3.3-3.8 GHz, 4 core / 4 threads, 6MB, AMT & vPro
Chipset	Intel Q170 Express, Intel Active Management Technology (Intel® AMT v11.6) & vPro on Core i5, TPM v2.0
Operator Display	15” 4:3 (1024x768) and 18.5” 16:9 (1366x768) LCD size options, with Projected Capacitive Multi-Touch. Bright 450cd/m² 15” LCD touch-panel
Memory	4GB DDR4 memory in all base models. 32GB max supported; 2 slots total. Optional 4GB, 8GB and 16GB modules
BIOS	AMI µEFI BIOS with Remote BIOS Flash
Audio	AC97-compliant high-definition audio
Graphics	Integrated Intel high-definition graphics controller
Connectivity	High-speed Gigabit LAN RJ-45 10/100/1000 Mbps with Wake On LAN
Storage	Standard 2.5” SATA3: 1-2x 128 / 256GB SSD or 1-2x 500GB HDD. Hot-Plug RAID1 capable with 2 of same drives. Optional: 1-2x M.2 PCIe NVME SSD 128 or 256GB w/ RAID 0/1 with 2 of same drives
I/O Ports	Base IO: 12 USB (6x 5W USB 3.1 gen1 (2 front), USB2: 2x5V, 3x12V, 1x24V), 1 DB9 0/5/12V, 2x DisplayPort, 1 VGA 1x Cash Drawer RJ12 (Y-cable for 2nd drawer), line out, mic in. Extension IO option: 6x USB (USB2: 2x5V, 4x12V), 2x Serial DB9 0/5/12V
Power Supply	300W “80-Plus” certified AC Power Supply supporting maximum powered peripheral configuration
System Management	Intel Active Management Technology (AMT) & vPro, Desktop Management Interface (DMI), Pre-boot Execution Environment (PXE), Advanced Power Management (APM), Advanced Configuration and Power Interface (ACPI), Wake on LAN (WOL), System Management BIOS, TPM v2.0
Colour	Black
Dimensions	11 3/8”(W) x 9” (D) x 3 15/16” (H) | 289mm (W) x 230mm (D) x 100mm(H) - Depth is 11 ¾” | 298mm when rear connector protection pegs are in place.
Weight	9.2 lb | 4.17 kg
Certifications	FCC, CSA, RSM, CE (TBD), CCC (TBD), VCCI (TBD)
Green Compliance	WEEE, ROHS

Peripheral Options	**Supports all popular standard retail peripherals**
Connectivity	Wireless LAN 802.11 b/ag/n/ac dual-band USB dongle with Wake On LAN
Customer Display	Optional 15” customer-facing colour LCD, XGA 1024x768. Bright LCD panel: Non-Touch 500cd/m², PCap Touch 450cd/m².
Customer VFD	Alpha-numeric (20 digits x 2 lines) 245 (W) x 40 (D) x 100 (H) mm non-integrated pole/remote mount (tilt/swivel)
Printers	Epson: TM-H6000, TM-H2000, TM-T88, TM-T70. Fujitsu CT-11, FP-510II and FP-2000 series
Keyboards	Fujitsu 133-key keyboards and Fujitsu 110-key keyboards
MSR	3-Track Magnetic Stripe Reader (MSR)
Cash Drawers	Standard, Compact and Flip-Top

Software

Operating Systems	*Standard*: POSReady7 32/64bit, Windows 10 IoT Enterprise. 2016 LTSB Value 64bit *For projects*: Windows 7 Pro 32/64bit, Windows8.1, SUSE Linux v12 64bit
APIs	Supports UPOS 1.14 (OPOS, JPOS) and ESC-POS based applications.

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