Panasonic

Panasonic recommends Windows® 8.

TOUGHPAD® FZ-R1

- Intel® processor with Trusted Platform Module (TPM)

- Accepts most forms of electronic payment; MSR, Chip/PIN and NFC

- Certified PCI-PTS V4.0 and EMV Level 1 | 2

- Encrypted MSR option and tamper-proof architecture

- Compatible with available E2EE and tokenization solutions

- User-replaceable battery with optional hot swappable and long-life battery

- 5MP rear camera with an integrated 2D barcode option

- 3-year warranty with business class support

THE WORLD'S FIRST ALL-IN-ONE WINDOWS TABLET WITH AN INTEGRATED EMV READER FOR SECURE MOBILE PAYMENTS.

The new Panasonic Toughpad® FZ-R1 is designed for retail and food service environments where PCI requirements mandate new payment card security standards like PCI-PTS V4.0 for chip and PIN. The Toughpad is an all-in-one, semi-rugged, enterprise-grade tablet running Windows with a secure Intel® processor. That means it can run any open fixed POS system or third party applications to help store associates provide a rich and engaging omni-channel customer experience at the point of service.

(intel®)

TOUGHPAD®

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DURABILITY
- Designed to semi-rugged standards (3-foot drop)
- Sealed port covers for spill resistance and Ingress Protection (IP53)
- SmartCard gasket for added Ingress Protection (optional)
- Broad operating temperatures for indoor and outdoor capabilities[1]
- Hardened glass with anti-glare treatment
- Pre-installed replaceable screen film for LCD protection
- Hand strap or rotating hand strap (Optional)

SOFTWARE[2]
- Windows® 8.1 Pro 64-bit
- Windows® 8.1 with Bing 64-bit[3]
- Panasonic utilities (including dashboard), recovery partition

CPU
- Intel® Celeron® N2807 Processor
  – Up to 2.16GHz
  – 1MB cache

STORAGE & MEMORY
- – 2-4GB SDRAM (DDR3L-1333MHz)[4,5]
  – 64GB eMMC[6]
  – Up to 32GB additional with optional microSDXC card[7]

DISPLAY
- 7" WXGA 1280 x 800 with LED backlighting[8]
- 10-point capacitive multi touch daylight-readable screen
  – 500 nit
  – Anti-reflective screen treatment
  – Automatic screen rotation
  – Intel® HD Graphics (Built-in Chip Set)[4,9]

AUDIO
- Integrated dual-microphone (available with select configurations)
- Integrated monaural speaker
- On-screen and button volume / mute controls

KEYBOARD & INPUT
- Six tablet buttons (two user-definable)
- Stylus pen with integrated holder in optional hand strap
- On-screen QWERTY keyboard

CAMERAS
- 1080p webcam with dual microphone (available with select configurations)
- 5MP rear camera with autofocus and LED light (2592 x 1944 (still)) (optional)[10]

EXPANSION
- microSDXC

INTERFACE

Docking connector	24-pin
Headphones/speaker	Mini-jack monaural
USB 3.0 (x 1)[11]	4-pin
SAM card slot (x 2)	Micro

WIRELESS
- Integrated 4G LTE multi-carrier mobile broadband with satellite GPS (optional)[12]
- Intel® Dual Band Wireless AC7260 Wi-Fi 802.11a/b/g/n/ac
- Bluetooth® v4.0 (Class 1) + EDR
- Security
  – Authentication: LEAP, WPA, 802.1x, EAP-TLS, EAP-FAST, PEAP
  – Encryption: CKIP, TKIP, 128-bit and 64-bit WEP, Hardware AES

SENSOR
- Digital compass
- Gyro
- Acceleration
- Ambient light (available only when configured with webcam)

SECURITY FEATURES
- Password security: Supervisor, User, Hard Disk Lock
- Kensington cable lock slot
- Trusted Platform Module (TPM) security chip v.1.2[13]
- Computrace® theft protection agent in BIOS

POWER SUPPLY
- Li-Ion battery pack:
  – Standard battery: 7.2V, typical 3220mAh, minimum 3120mAh
  – Long-life battery: 7.2V, typical 7100mAh, minimum 6800mAh
- Battery operation:
  – Standard battery: 8 hours[14]
  – Standard battery with payment transactions: 7 hours[15]
  – Optional long-life battery: 16 hours
  – Optional long-life battery with payment transactions: 14 hours
  – Bridge battery: 30 seconds (optional)[16]
- Battery charging time[16]:
  – Standard battery: 2.5 hours off, 4 hours on
  – Optional long-life battery: 4.5 hours off, 5 hours on

POWER MANAGEMENT
- Suspend / Resume function, Hibernation, Standby

WARRANTY
- 3-year Limited Warranty, parts and labor

DIMENSIONS & WEIGHT[17]
- 10.12"(L) x 5.12"(W) x 1.08"(H)
- 1.43 lbs

INTEGRATED OPTIONS
- 4G LTE multi-carrier mobile broadband with satellite GPS
- Encrypted magnetic stripe reader
- 5MP rear camera with auto focus and LED light or 1D/2D barcode reader (EA30)[10]
- Bridge battery

INTEGRATED PAYMENT TECHNOLOGY
- SmartCard
  – Synchronous / asynchronous
  – EMVCo Level 1 | 2 certification, ISO7816
- Magstripe reader (MSR)
  – Bi-directional, triple track, encrypted
  – ISO7810, 7811 and 7813
- Security / Key Management
  – 3DES encryption and DUKPT
- Near Field Communications (NFC)
  – PayPass and PayWave (EMV mode and MS mode)
  – EMVCo L1 Certification, ISO14443
- PIN Pad
  – 3x4 capacitive keypad
  – PCI-PTS V4.0 certification
  – ADA compliant with optional overlay
- Security Access Modules (SAMs)
  – Two card slots

ACCESSORIES

AC adapter (3-prong)[18]	CF-AA6373AM
Standard battery pack	FZ-VZSU94W
Long-life battery pack	FZ-VZSU95W
Multi-battery charger	FZ-VCBM11U
Standard hand strap with stylus holder and tether	FZ-VSTR11U
Rotating hand strap with stylus holder and tether	FZ-VSTR12U
Capacitive replacement stylus	FZ-VNPM11U
Countertop POS cradle	FZ-VEBR11M
Multi-tablet cradle	FZ-VEBR12M
Rubber SmartCard gasket	FZ-VADR11U
ADA-compliant Keypad overlay	FZ-VADR12U

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Please consult your reseller or Panasonic representative before purchasing.
Specifications given herein may be changed at any time without prior notice.

1 Do not expose the skin to this product when using the product in a hot or cold environment. When using in hot or cold environment, some peripherals may fail to work properly. Check the operation environment of the peripherals. Using this product continuously in a hot environment will shorten the product life. Avoid use in these types of environments. When using in low temperature environment, startup may become slow or battery operation time may become short. The computer consumes power when the hard disk is warming up during startup. Therefore, if you are using battery power and the remaining power is low, the computer may not start up.
2 No downgrade option to Windows 7.
3 Operations of this computer are not guaranteed except for the pre-installed OS and the OS which is installed by using the hard disk recovery and the recovery disc.
4 1 MB = 1,048,576 bytes/1 GB = 1,073,741,824 bytes.
5 Memory size of the factory default depends on the model.
6 1 MB = 1,000,000 bytes / 1 GB = 1,000,000,000 bytes. Your operating system or some application software will report as fewer GB.
7 Operation has been tested and confirmed using Panasonic microSD Memory Card with a capacity of up to 2 GB and Panasonic microSDHC Memory Card with a capacity of up to 32 GB. Operation on other microSD equipment is not guaranteed.

8 A 16,777,216 color display is achieved by using the dithering function.
9 A segment of the main memory is allotted automatically depending on the computer's operating status. The size of the Video Memory cannot be set by the user.
10 Exclusively configurable by selecting one from Rear Camera or Barcode reader.
11 Does not guarantee operation of all USB-compatible peripherals.
12 Only for model with Wireless WAN The specifications may differ depending on the models.
13 For information on TPM, On the Start screen, click the [Manual Selector] tile, and select "Installation Manual for Trusted Platform Module (TPM)".
14 Measured at LCD brightness: 60 cd/m2. Varies depending on the usage conditions, or when an external device is attached.
15 Measured at LCD brightness: 60 cd/m2. 6 payment transaction per hour. Varies depending on the usage conditions, or when an external device is attached.
16 Varies depending on the usage conditions.
17 May differ depending on models and options.
18 The AC adaptor is compatible with power sources up to 240 V AC adaptor. This computer is supplied with a 125 V AC compatible AC cord.

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