



## TOUGHPAD FZ-M1

- MIL-STD-810G, 5' Drop and All-weather IP65 Dust and Water-resistant Design
- 4th Generation Intel® Core™ i5 vPro™ Processor
- User-replaceable Battery, Optional Bridge Battery and Long Life Battery
- USB 3.0, Optional NFC, Ethernet, Serial, SmartCard, Magnetic Stripe and Barcode Reader<sup>1</sup>
- Wi-Fi, Bluetooth® and Optional Dedicated GPS or 4G LTE Multi Carrier Mobile Broadband
- 3-year Warranty with Business Class Support

Panasonic recommends Windows 8.



### The world's first fully-rugged 7" Windows® 8 tablet with an Intel® Core™ i5 vPro™ processor.

The Panasonic Toughpad™ FZ-M1 is the world's thinnest and lightest fully-rugged 7" Windows® tablet, built to enable mission-critical mobile worker productivity without compromise. Powered by Windows® 8.1 Pro and a 4th generation Intel® Core™ i5 vPro™ processor, the Toughpad FZ-M1 features a long life, user-replaceable battery and a daylight-readable, high-sensitivity multi touchscreen for use with heavy gloves. With the broadest range of configuration options available in its class, the highly customizable Toughpad FZ-M1 is the ideal tool for today's mobile workforce.



5-FOOT  
DROP RATING

IP65

MIL-STD-  
810G

1.800.662.3537  
[panasonic.com/toughpad/M1](http://panasonic.com/toughpad/M1)



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### DURABILITY

- MIL-STD-810G design [5' drop, shock, vibration, rain, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, humidity, explosive atmosphere]
- IP65 certified sealed all-weather fanless design
- Solid state drive heater
- Magnesium alloy chassis encased with ABS and elastomer corner guards
- Optional hand strap or rotating hand strap
- Port covers
- Raised bezel for LCD impact protection
- Pre-installed replaceable screen film for LCD protection

### SOFTWARE

- Windows® 8.1 Pro 64-bit (with Windows® 7 downgrade option)
- Panasonic Utilities (including Dashboard), Recovery Partition

### CPU

- Intel® Core™ i5-4302Y vPro™ Processor
  - 1.6GHz with Intel® Turbo Boost up to 2.3GHz
  - 3MB cache

### STORAGE & MEMORY

- 8GB SDRAM [DDR3L-1333MHz]<sup>2,3</sup>
- Up to 64GB additional with optional microSDXC card
- 128GB and 256GB solid state drives (SSD) with heaters<sup>2</sup>

### DISPLAY

- 7" WXGA 1280 x 800 with LED backlighting
- 10-point capacitive multi touch daylight-readable screen
  - 500 nit
  - IPS display with direct bonding
  - Anti-reflective screen treatment
  - Ambient light sensor, digital compass, gyro and acceleration sensors
  - Automatic screen rotation
  - Intel® HD graphics 4200 video controller, max. 1664MB shared VRAM with Win 8 64-bit<sup>4</sup>
- Concealed mode (configurable)

### AUDIO

- Integrated microphone
- Realtek high-definition audio
- Integrated speaker
- On-screen and button volume and mute controls

### KEYBOARD & INPUT

- 10-point multi touch
  - Supports gloved touch and gestures and capacitive stylus pen
- 6 tablet buttons (2 user-definable)
- Stylus pen with integrated holder in rotating hand strap
- On-screen QWERTY keyboard

### CAMERAS

- 720p webcam with mic
- 8MP rear camera with auto focus and LED light

### EXPANSION

- MicroSDXC

### INTERFACE

- Docking connector 24-pin
- Headphones/speaker Mini-jack stereo
- USB 3.0 (x 1) 4-pin

### WIRELESS

- Optional integrated 4G LTE multi carrier mobile broadband with satellite GPS
- Optional dedicated GPS (Ublox Neo M8 series)
- 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
- Optional dual high-gain antenna pass-through

### 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<sup>5</sup>:
  - Standard battery: 8 hours
  - Optional long life battery: 16 hours
  - Bridge battery: 30 seconds
- Battery charging time<sup>5</sup>:
  - Standard battery: 2.5 hours off, 3 hours on
  - Optional long life battery: 4.5 hours off, 5 hours on

### POWER MANAGEMENT

- Suspend/Resume Function, Hibernation, Standby

### SECURITY FEATURES

- Password Security: Supervisor, User, Hard Disk Lock
- Kensington cable lock slot
- Trusted platform module (TPM) security chip v.1.2
- Computrace® theft protection agent in BIOS<sup>6</sup>
- Intel® Anti-Theft Technology
- Optional insertable SmartCard reader<sup>1</sup>
- Optional contactless RFID and SmartCard reader<sup>1</sup>



### WARRANTY

- 3-year limited warranty, parts and labor

### DIMENSIONS & WEIGHT<sup>7</sup>

- 7.98" (L) x 5.20" (W) x 0.71" (H)
- 1.2 lbs.

### INTEGRATED OPTIONS<sup>8</sup>

- 4G LTE multi carrier mobile broadband with satellite GPS
- Available upgrade packages<sup>1</sup>:
  - Bridge battery only and 1D/2D barcode reader (EA30) or LAN or serial
  - SmartCard reader (half-insertable) and bridge battery, 1D/2D barcode reader (EA30) or LAN or serial
  - Magnetic stripe reader and bridge battery, 1D/2D barcode reader (EA30) or LAN or serial
  - HF/RFID 13.56MHz reader (ISO 15693 and 14443 A/B compliant [PR5331C3HN]) and bridge battery, 1D/2D barcode reader or LAN or serial
  - UHF/RFID 900MHz EPC Gen2 reader

### ACCESSORIES<sup>9</sup>

- AC Adapter (3-prong)
- Standard Battery Pack
- Long Life Battery Pack
- Multi-battery Charger
- Battery Charger
- Standard Hand Strap
- Rotating Hand Strap
- Capacitive Replacement Stylus
- Desktop Cradle
- Lite-function Cradle
- Replacement Protection Film
- CF-AA6373AM
- FZ-VZSU94W
- FZ-VZSU95W
- FZ-VCBM11U
- CF-VCBTB3W / FZ-VCBAM11U (bundle only)
- FZ-VSTM11U
- FZ-VSTM12U
- FZ-VNPM11U
- FZ-VEBM12U
- FZ-VEBM11U
- FZ-VPFM11U

Please consult your reseller or Panasonic representative before purchasing.

Caution: Do not expose bare skin to this product when handling this unit in extreme hot or cold environments.

<sup>1</sup>Mutually exclusive option.

<sup>2</sup>1GB = 1,000,000,000 bytes.

<sup>3</sup>Total usable memory will be less depending upon actual system configuration.

<sup>4</sup>The size of the VRAM cannot be set by the user and varies by operating system as well as size of RAM. Windows 7 max. VRAM is 1544MB.

<sup>5</sup>Approximate time. Battery performance features such as charge time and life span can vary according to the conditions under which the computer and battery are used. Battery operation and recharge times will vary based on many factors, including screen brightness, applications, features, power management, battery conditioning and other customer preferences. Battery testing results from MobileMark 2007.

<sup>6</sup>Requires software and activation to enable theft protection.

<sup>7</sup>Length measurements do not include protrusions or configurable options.

<sup>9</sup>Accessories and Integrated Options may vary depending on your configuration. Visit Panasonic website for more accessories and details.

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## SOLUTIONS FOR BUSINESS

