



Panasonic recommends Windows 10 Pro.

## TOUGHBOOK FZ-M1

- MIL-STD-810G, 5' Drop and All-weather IP65 Dust and Water-resistant Design
- User-replaceable Battery, Bridge Battery and Optional Long Life Battery
- Optional NFC, Ethernet, Serial, SmartCard, UHF RFID and Barcode Reader<sup>1</sup>
- Wi-Fi, Bluetooth® and Optional Dedicated GPS or 4G LTE Multi Carrier Mobile Broadband
- Industry leading driver packages for ease of deployment and support
- Additional Options; FLIR® Thermal Camera model, RealSense™ Camera model, RTK/GPS model as well as Passport reader/MSR option

5-FOOT  
DROP RATING

IP65

MIL-STD-  
810G

## ONE OF THE WORLD'S MOST CONFIGURABLE 7" WINDOWS 10 PRO TABLET.

The Panasonic Toughbook FZ-M1 is the fully rugged Windows® tablet, built to enable mission-critical mobile worker productivity without compromise. Powered by Windows® 10 Pro, the Toughbook FZ-M1 features a long life, user-replaceable battery and a daylight-readable, high-sensitivity multi-touch display for use with heavy gloves. With the broadest range of configuration options available in its class, the highly customizable Toughbook FZ-M1 is the ideal tool for today's mobile workforce. In addition to the highly configurable options, added models of Thermal Camera, RealSense™ Camera, RTK/GPS, as well as several more allows the M1 to be the most comprehensive 7" tablet in the market.

# TOUGHBOOK FZ-M1

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## SOFTWARE

- Windows 10 Pro 64-bit
- Panasonic Utilities (including Dashboard), Recovery Partition
- Enterprise ready driver packages including CAB files and one-click driver bundles

## 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

## CPU

- Intel® Core™ i5-7Y57 vPro™ Processor
  - 2-Core Turbo 2.9 GHz [1.2 GHz/3.3 GHz]
  - 4MB cache

## STORAGE & MEMORY

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

## DISPLAY

- 7" WXGA 1280 x 800
- 10-point capacitive multi touch daylight-readable screen
  - 700 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 Windows 10 64-bit
- Concealed mode (configurable)
- Dual monitor support

## AUDIO

- Built-in Directional Array Microphones
- Intel® High Definition Audio subsystem support
- 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

- Front: 2MP (USB) webcam w/ stereo mic/ALS
- Rear: 8MP MIPI, with Camera Flash LED

## 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-M8N)
- Intel® Dual Band Wireless AC8260 Wi-Fi 802.11a/b/g/n/ac
- Bluetooth® v4.1 (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>4</sup>:
  - Standard battery: 9 hours
  - Optional long life battery: 16 hours
  - Bridge battery: 1 minute swap time
- Battery charging time<sup>4</sup>:
  - Standard battery: 2.5 hours off, 4 hours on
  - Optional long life battery: 4.5 hours off, 6.5 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.2.0
- Computrace® theft protection agent in BIOS<sup>5</sup>
- Absolute® Data and Device Security theft protection agent in Bios<sup>5</sup>
- 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>6</sup>

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

## INTEGRATED OPTIONS<sup>7</sup>

- Choice of 4G LTE multi carrier mobile broadband with satellite GPS, or GPS only, and dual high-gain antenna pass through for WWAN and GPS
- UHF 900MHz RFID reader (EPC Gen 2)<sup>1</sup>
- Choice of 1D/2D barcode reader (EA30), serial dongle, Ethernet, or 2nd USB 2.0 port; bridge battery optional<sup>1</sup>
- Choice of magstripe reader (rotating hand strap included), insertable half-size SmartCard reader, contactless SmartCard/NFC reader or UHF 900MHz RFID reader (EPC Gen2)<sup>8</sup>

## ADDITIONAL MODEL OPTIONS

- Thermal Camera (FLIR® Lepton 3.5)
- Intel® RealSense™ Camera (D410)
- RTK/GPS Model
- MRZ Model (Passport Reader+MSR)

## ACCESSORIES<sup>7</sup>

- AC Adapter (3-prong) CFAA6373AM
- Standard Battery Pack FZVSU94W
- Long Life Battery Pack FZVSU95W
- Multi-battery Charger FZVCBM11U
- Desktop Cradle FZVEBM12AU
- Lite-function Cradle FZVPM11U
- Replacement Protection Film FZVSTM11U
- Standard Hand Strap with stylus holder FZVSTM12U
- Rotating Hand Strap with stylus holder FZVSTM12U
- Shoulder Strap FZVNSM12U
- ToughMate M1 Always-On Case TBCM1A0-P
- ToughMate M1 Holster TBCM1HSTR-P
- ToughMate M1 Portfolio Case TBCM1PFLIO-BLK-P

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> 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>5</sup> Requires software and activation to enable theft protection.

<sup>6</sup> Length measurements do not include protrusions or configurable options.

<sup>7</sup> Accessories and Integrated Options may vary depending on your configuration. Visit Panasonic website for more accessories and details.

<sup>8</sup> Insertable SmartCard, Contactless SmartCard/NFC, magstripe, UHF-RFID readers are mutually exclusive.



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