



TOUGHPAD FZ-B2

- 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 SmartCard, Barcode Reader^{1,2}, and Contactless SmartCard Reader
- Wi-Fi, Bluetooth® and 4G LTE Mobile Broadband with Satellite GPS or Dedicated GPS
- 3-year Warranty with Business Class Support

5-FOOT
DROP RATING

IP65

MIL-STD-
810G

THE FIRST FULLY RUGGED 7" HIGH PERFORMANCE INTEL®-BASED ANDROID™ TABLET BUILT FOR ENTERPRISE.

The Panasonic Toughpad FZ-B2 is a rugged 7" tablet powered by Android™ for field-based workforces. With durability, power and a range of configurability options—at a price within reach of any business—the Toughpad FZ-B2 is an ideal tool for field service professionals. Offering enterprise-grade features including a quick-charging, user-replaceable full-shift battery, the thin and lightweight Toughpad FZ-B2 has a fully rugged and sealed design built for long-lasting durability even when used in harsh environments.

TOUGHPAD FZ-B2



SOFTWARE	<ul style="list-style-type: none"> Android 6.0² Panasonic Utilities (including Dashboard) 		
DURABILITY	<ul style="list-style-type: none"> 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 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	<ul style="list-style-type: none"> Intel® Atom x5-Z8550 processor <ul style="list-style-type: none"> ~ 1.44 GHz up to 2.4 GHz ~ 2MB cache 		
STORAGE & MEMORY	<ul style="list-style-type: none"> 2GB SDRAM (DDR3L-1333MHz)⁴ 32GB eMMC⁵ Up to 64GB total storage available with optional microSDHC card⁶ 		
DISPLAY	<ul style="list-style-type: none"> 7" WXGA 1280 x 800 65536/16,777,216 colors LED backlighting⁷ 10-point capacitive multi touch daylight-readable screen <ul style="list-style-type: none"> ~ 500 nit Display with direct bonding Anti-reflective screen treatment Automatic screen rotation 		
SENSORS	<ul style="list-style-type: none"> Ambient light Digital compass Gyro Acceleration 		
AUDIO	<ul style="list-style-type: none"> Integrated dual microphone Integrated monaural speaker On-screen and button volume and mute controls 		
KEYBOARD & INPUT	<ul style="list-style-type: none"> 10-point multi touch <ul style="list-style-type: none"> Supports gloved touch and gestures 6 tablet buttons (2 user-definable) Passive stylus pen with integrated holder in rotating hand strap On-screen QWERTY keyboard 		
CAMERAS	<ul style="list-style-type: none"> 720p webcam with mic 8MP rear camera with auto focus and LED flash 		
EXPANSION	<ul style="list-style-type: none"> MicroSDHC 		
INTERFACE	<table border="0"> <tr> <td> <ul style="list-style-type: none"> Docking connector Headphones/speaker USB 3.0 (x 1)⁸ USB 3.1 (x 1)⁸ SIM card slot (x 1) </td> <td> <ul style="list-style-type: none"> 24-pin Mini-jack stereo 4-pin Type C </td> </tr> </table>	<ul style="list-style-type: none"> Docking connector Headphones/speaker USB 3.0 (x 1)⁸ USB 3.1 (x 1)⁸ SIM card slot (x 1) 	<ul style="list-style-type: none"> 24-pin Mini-jack stereo 4-pin Type C
<ul style="list-style-type: none"> Docking connector Headphones/speaker USB 3.0 (x 1)⁸ USB 3.1 (x 1)⁸ SIM card slot (x 1) 	<ul style="list-style-type: none"> 24-pin Mini-jack stereo 4-pin Type C 		
WIRELESS	<ul style="list-style-type: none"> Integrated 4G LTE mobile broadband with satellite GPS⁹ or Dedicated GPS Intel® Dual Band Wireless AC8260 Wi-Fi 802.11a/b/g/n/ac Bluetooth® v4.2 (Class 1) + EDR Security <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Li-Ion battery pack: <ul style="list-style-type: none"> Standard battery: 7.2V, typical 3220mAh, minimum 3050mAh Long life battery: 7.2V, typical 7100mAh, minimum 6800mAh Battery operation:¹⁰ <ul style="list-style-type: none"> Standard battery: 7 hours Optional long life battery: 14 hours Bridge battery: Approx. 60 seconds Battery charging time:¹¹ <ul style="list-style-type: none"> Standard battery: 2.5 hours off, 4 hours on Optional long life battery: 4.5 hours off, 6.5 hours on 		
POWER MANAGEMENT	<ul style="list-style-type: none"> Suspend/Resume Function, Standby 		
SECURITY FEATURES	<ul style="list-style-type: none"> Kensington cable lock slot Optional insertable SmartCard reader¹ Optional contactless supported SmartCard reader Security suite: encryption, screen lock, verification boot, secure boot, trusted boot, fastboot disable Mobile Device Management supported by industry leading providers 		

WARRANTY
 ■ 3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT
 ■ 7.98"(L) x 5.20"(W) x 0.71"(H)¹²
 ■ 1.2 lbs.¹³

INTEGRATED OPTIONS¹⁴

- 4G LTE mobile broadband with satellite GPS or Dedicated GPS
- Dual high-gain antenna pass-through for WWAN and GPS⁹
- Configuration area #1 (Choose one)
 - Bridge battery and 1D/2D barcode reader [EA30]²
 - Bridge battery and LAN²
- Configuration area #2 (Choose one)
 - Bridge battery and SmartCard reader¹
 - Contactless SmartCard¹ - Type A ISO/IEC 14443/18092, Type B ISO/IEC 1443, Type F ISO/IEC 18092, JIS X6319-4 (Felica), Reader/Writer mode, Peer-to-Peer mode, Card Emulation mode
 - Magnetic Stripe Reader

ACCESSORIES¹⁴

<ul style="list-style-type: none"> AC Adapter (3-prong)¹⁵ Standard Battery Pack Long Life Battery Pack Multi-battery Charger Passive Replacement Stylus + Tether Lite-function Cradle Replacement Protection Film Standard Hand Strap + Tether Rotating Hand Strap + Tether Shoulder Strap 	<ul style="list-style-type: none"> CF-AA6373AM FZ-VZSU94W FZ-VZSU95W FZ-VCBM11U FZ-VNPM12U FZ-VBEM11AU FZ-VPFM11U FZ-VSTM12AU FZ-VSTM11AU FZ-VNSM12U
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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.

¹ SmartCard reader cannot be ordered separately.
² Exclusively configurable by selecting one from LAN port or barcode.
³ Operations of this computer are not guaranteed except for the pre-installed OS.
⁴ 1MB = 1,048,576 bytes/1GB = 1,073,741,824 bytes
⁵ 1MB = 1,000,000 bytes/1GB = 1,000,000,000 bytes. Your operating system or some application software will report as fewer GB.
⁶ Operation has been tested and confirmed using Panasonic microSD.
⁷ A 16,777,216 color display is achieved by using the dithering function.
⁸ Does not guarantee operation of all USB-compatible peripherals.
⁹ Only for model with Wireless WAN. The specifications may differ depending on the models.
¹⁰ Approx. 0.5 W when the battery pack is fully charged (or not being charged) and the computer is Off (when using with 115V AC). Even when the AC adapter is not connected to the computer, power is consumed (Max. 0.3 W) simply by having the AC adapter plugged into an AC outlet.
¹¹ Varies depending on the usage conditions.
¹² May differ depending on models and options.
¹³ Average value. May differ depending on models and options.
¹⁴ Accessories and Integrated Options may vary depending on your configuration. Visit Panasonic website for more accessories and details.
¹⁵ The AC adapter is compatible with power sources up to 240V AC.



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TOUGHPAD 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
- USB 3.0, Optional NFC, Ethernet, Serial, SmartCard, Barcode Reader¹
- Wi-Fi, Bluetooth[®] and Optional Dedicated GPS or 4G LTE Multi Carrier Mobile Broadband
- 3-year Warranty with Business Class Support

5-FOOT
DROP RATING

IP65

MIL-STD-
810G

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

The Panasonic Toughpad FZ-M1 is one of the world's thinnest and lightest fully-rugged 7" Windows tablet, built to enable mission-critical mobile worker productivity without compromise. Powered by Windows 10 Pro and 6th generation Intel[®] Core[™] m5-6Y57 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 one of 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.

TOUGHPAD FZ-M1



Panasonic recommends Windows 10 Pro.

SOFTWARE

- Windows 10 Pro 64-bit
- Panasonic Utilities (including Dashboard), Recovery Partition

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™ m5-6Y57 vPro™ Processor
 - 1.1GHz with Intel® Turbo Boost up to 2.8GHz
 - 4MB cache

STORAGE & MEMORY

- 8GB SDRAM [DDR3L-1333MHz]^{2,3}
 - Up to 64GB additional with optional microSDXC card
 - 128GB and 256GB solid state drives [SSD] with heaters²

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 515
- 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 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 operation⁴:
 - Standard battery: 9 hours
 - Optional long life battery: 18 hours
 - Bridge battery: 30 seconds
- Battery charging time⁴:
 - 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.2.0
- Computrace[®] theft protection agent in BIOS⁵
- Absolute[®] Data and Device Security theft protection agent in Bios⁵
- Optional insertable SmartCard reader¹
- Optional contactless RFID and SmartCard reader¹

WARRANTY

- 3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT⁷

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

INTEGRATED OPTIONS⁸

- Choice of 4G LTE multi carrier mobile broadband with satellite GPS, or GPS only [U-blox 8], and dual high-gain antenna pass through for WWAN and GPS
- UHF 900MHz RFID reader [EPC Gen 2]¹
- Choice of 1D/2D barcode reader [EA30], serial dongle, Ethernet, or 2nd USB 2.0 port; bridge battery optional¹
- Choice insertable SmartCard reader or contactless SmartCard reader (ISO 15693 and 14443 A/B compliant); bridge battery optional¹

ACCESSORIES⁹

- AC Adapter (3-prong) CF-AA6373AM
- Standard Battery Pack FZ-VZSU94W
- Long Life Battery Pack FZ-VZSU95W
- Multi-battery Charger FZ-VGBM11U
- Capacitive Replacement Stylus FZ-VNPM11U
- Desktop Cradle FZ-VEBM12AU
- Lite-function Cradle FZ-VEBM11AU
- Replacement Protection Film FZ-VPFM11U
- Standard Hand Strap FZ-VSTM11U
- Rotating Hand Strap FZ-VSTM12U
- Shoulder Strap FZ-VNSM12U

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

¹ Mutually exclusive option.

² 1GB = 1,000,000,000 bytes.

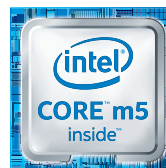
³ Total usable memory will be less depending upon actual system configuration.

⁴ 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.

⁵ Requires software and activation to enable theft protection.

⁶ Length measurements do not include protrusions or configurable options.

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



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