



## TOUGH PAD FZ-E1 AND FZ-X1

- Windows® (FZ-E1) or Android™ (FZ-X1) Operating System
- Data and Voice Technology
- Qualcomm® Quad Core Processor
- MIL-STD-810G, 10' Drop, All-weather IP65 and IP68 Dust and Water-resistant Design
- 14-hour Hot Swappable Battery
- Optional Integrated Barcode Reader, Magstripe Reader and Certified ANSI 12.12.01 for Hazardous Locations
- Glove-enabled Multi Touch Daylight-readable Display
- 3-year Warranty with Business Class Support

10-FOOT  
DROP RATING

IP65

IP68

MIL-STD-  
810G

## THE WORLD'S MOST RUGGED 5" HANDHELD TABLET, WITH DATA AND VOICE TECHNOLOGY.

The new Panasonic Toughpad® FZ-E1 (Windows®) and FZ-X1 (Android™) are the world's most rugged 5" handheld tablets, with optional data, voice and push-to-talk technology\*. These fully-rugged tablets are MIL-STD-810G and IP65/68 tested with a 10' drop resistance, operating temperature of -4°F to 140°F and a glove-enabled multi touch daylight-readable display. The Toughpad FZ-E1 and FZ-X1 boast the world's longest battery life for a handheld tablet, with 14 hours of continuous data access. The battery quickly charges to 50% in just one hour, and is hot-swappable. Customized options include integrated barcode reader, magstripe reader and certified ANSI 12.12.01 for hazardous locations.

\*Push-to-talk currently not available on E1. X1 telephony model available January 2015.

### LEARN MORE

1.800.662.3537

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

**TOUGH PAD®**

# TOUGHPAD FZ-E1 AND FZ-X1



# Panasonic

## DURABILITY

- World's most rugged design
- MIL-STD-810G (shock, vibration, rain, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, humidity, explosive atmosphere)
- IP65 and IP68 sealed all-weather design (submersible up to 5' for 30 minutes)
- 10' drop-resistant
- Operating temperature of -4°F to 140°F
- Port covers
- Raised bezel for LCD impact protection

## SOFTWARE

- FZ-E1: Windows® Embedded 8.1 Handheld
- FZ-X1: Android™ (4.2.2)

## CPU

- FZ-E1: Qualcomm® MSM8974AB 2.3GHz Quad-Core
- FZ-X1: Qualcomm® APQ8064T 1.7GHz Quad-Core

## STORAGE & MEMORY

- Memory 2GB<sup>1,2</sup>
- Storage 32GB<sup>1,2</sup>
  - Up to 64GB additional with optional microSDXC card<sup>3</sup>

## DISPLAY

- 5" high definition 1280 x 720 daylight-viewable display
- 10-point capacitive gloved multi touch with glove touch mode
  - Rain sensing touch mode
  - 2-500 nit
  - VA display with direct bonding
  - Anti-reflective and anti-glare screen treatments
  - Automatic screen rotation

## AUDIO

- Integrated microphone x 3
- Loud volume twin speakers 100 db

## KEYBOARD & INPUT

- 10-point gloved multi touch + digitizer screen
- 2-4 tablet buttons (user-definable)
- On-screen QWERTY keyboard

## SENSORS

- Ambient light sensor, digital compass, gyro and acceleration sensors

## CAMERAS

- HD 1.3MP webcam
- 8MP rear camera with LED light

## EXPANSION

- microSDXC

## INTERFACE

- Docking connector 13-pin
- USB 2.0 (x 1)<sup>4</sup> 4-pin
- Headphone & microphone Mini-jack stereo

## WIRELESS

- IEEE802.11 a/b/g/n/ac
- 4G LTE, HSPA+, UMTS, EDGE, GPRS, CDMA 1x, EVDO Rev.A
- Micro SIM card slot x 2
- Bluetooth® v4.0 (class 1)
- GPS 2m CEP50 (±2 to 4m)
- Near Field Communication (NFC)
  - Felica Type A, Type B

## POWER SUPPLY<sup>5</sup>

- Li-Ion battery pack 3.8V, 6200mAh
- Battery operation:
  - FZ-E1: Standby TBD; Talk TBD
  - FZ-X1: Standby up to 1000 hours; Talk up to 23 hours; Barcode up to 20.5 hours
- Bridge battery:
  - 30 seconds to 2 minutes
- Continuous use data:
  - 14 hours
- Battery charging time:
  - Power on approx. 3 hours; Power off approx. 3 hours; 50% charge in approx. 1 hour
- AC adapter sold separately

## POWER MANAGEMENT

- Consumption approx. 18W
- Hot swap battery

## SECURITY FEATURES

- FIPS140-2 level-1 compliant
- ARM® TrustZone® (Built-in)

## WARRANTY

- 3-year limited warranty, parts and labor

## DIMENSIONS & WEIGHT<sup>6</sup>

- 6.5"(L) x 3.4"(W) x 1.2"(H)
- Approx. 0.94 lb.

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

- Optional 1D/2D barcode reader
- Optional magnetic stripe reader with hand strap and stylus
- Certified ANSI 12.12.01 for hazardous locations

## ACCESSORIES<sup>8</sup>

- |   |              |
|---|--------------|
| AC Adapter 60W for Device and Desktop Cradle <sup>9</sup>                                 | CF-AA6373AM  |
| (sold separately from device, included with cradle)                                       |              |
| AC Adapter (110W) for 4-Bay Cradle and 4-Bay Battery Charger (included with both cradles) | CF-AA5713AM  |
| Car/DC Adapter  | CF-AAV1601AW |
| Desktop Cradle with Spare Battery Charging Slot (60W power adapter included)              | TBD          |
| 4-Bay Cradle (110W power adapter included)  | TBD          |
| 4-Bay Battery Charger (110W power adapter included)                                       | TBD          |
| Hand Strap with Stylus (corner rings included)  | TBD          |
| Holster and Belt  | FZ-VSTX111U  |
| Battery Pack  | FZ-VZSUX100J |
| Shoulder Strap (corner rings included)  | TBD          |
| Vehicle Dock  | TBD          |

Please consult your reseller or Panasonic representative before purchasing.

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

<sup>2</sup> Total usable memory will be less depending upon actual system configuration.

<sup>3</sup> Operation has been tested and confirmed using Panasonic SD Memory Card with a capacity of up to 2GB, Panasonic SDHC Memory Card with a capacity of up to 32GB, and Panasonic SDXC Memory Card with a capacity of up to 64GB. Operation on other SD equipment is not guaranteed.

<sup>4</sup> Does not guarantee operation of all USB-compatible peripherals.

<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. 14 hours based on Panasonic test conditions.

<sup>6</sup> Length measurements do not include protrusions. Weight varies with 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> The AC adapter is compatible with power sources up to 240V AC adapter. The AC adapter is sold separately.



## LEARN MORE

1.800.662.3537

panasonic.com/toughpad

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