



TOUGHPAD FZ-E1

- Windows Operating System
- Qualcomm® Quad-core Processor
- MIL-STD-810G, 10' Drop, All-weather IP65 and IP68 Dust and Water-resistant design
- 14-hour Hot-swappable Battery
- Integrated Barcode Reader, Optional 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

ONE OF THE WORLD'S MOST RUGGED 5" HANDHELD TABLET.

The new Panasonic Toughpad FZ-E1 is one of the world's most rugged 5" handheld tablet. This fully-rugged tablet is MIL-STD-810 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 boasts one of the world's longest battery life for a handheld tablet. The battery quickly charges to 50% in just one hour, and is hot-swappable. Include integrated barcode reader, with optional magstripe reader and certified ANSI 12.12.01 for hazardous locations.

TOUGH PAD FZ-E1



Panasonic recommends Windows 10 Pro.

SOFTWARE	<ul style="list-style-type: none"> Windows Embedded 8.1 Handheld 		
DURABILITY	<ul style="list-style-type: none"> 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 		
CPU	<ul style="list-style-type: none"> Qualcomm® MSM8974AB 2.3GHz Quad Core 		
STORAGE & MEMORY	<ul style="list-style-type: none"> Memory 2GB^{1,2} Storage 32GB^{1,2} <ul style="list-style-type: none"> – Up to 64GB additional with optional microSDXC card³ 		
DISPLAY	<ul style="list-style-type: none"> 5" high definition 1280 x 720 daylight-viewable display 10-point capacitive gloved multi touch with glove touch mode <ul style="list-style-type: none"> – Rain sensing touch mode – 2-500 nit – VA display with direct bonding – Anti-reflective and anti-glare screen treatments – Automatic screen rotation 		
AUDIO	<ul style="list-style-type: none"> Integrated microphone x 3 Loud volume twin speakers up to 100 db 		
KEYBOARD & INPUT	<ul style="list-style-type: none"> 10-point gloved multi touch + digitizer screen 2-4 tablet buttons (user-definable) On-screen QWERTY keyboard 		
SENSORS	<ul style="list-style-type: none"> Ambient light sensor, digital compass, gyro and acceleration sensors 		
CAMERAS	<ul style="list-style-type: none"> HD 1.3MP webcam 8MP rear camera with LED light 		
EXPANSION	<ul style="list-style-type: none"> microSDXC 		
INTERFACE	<table border="0"> <tr> <td> <ul style="list-style-type: none"> Docking connector USB 2.0 (x 1)⁴ Headphone & microphone </td> <td> <ul style="list-style-type: none"> 13-pin 4-pin Mini-jack stereo </td> </tr> </table>	<ul style="list-style-type: none"> Docking connector USB 2.0 (x 1)⁴ Headphone & microphone 	<ul style="list-style-type: none"> 13-pin 4-pin Mini-jack stereo
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WIRELESS	<ul style="list-style-type: none"> IEEE802.11 a/b/g/n/ac Micro SIM card slot x 2 Bluetooth® v4.0 (class 1) GPS 2m CEP50 (±2 to 4m) Near Field Communication (NFC) <ul style="list-style-type: none"> – Felica Type A, Type B 		
POWER SUPPLY⁵	<ul style="list-style-type: none"> Li-ion 3.8V, 6,200 mAh Battery operation: <ul style="list-style-type: none"> – Standby up to 1000 hours; Talk up to 23 hours; Barcode up to 20.5 hours Battery operation: <ul style="list-style-type: none"> – 30 seconds to 2 minutes Continuous use data: <ul style="list-style-type: none"> – 14 hours Battery charging time: <ul style="list-style-type: none"> – Power on approx. 3.6 hours; 50% charge in approx. 1 hour AC adapter sold separately 		
POWER MANAGEMENT	<ul style="list-style-type: none"> Consumption approx. 18W Hot-swappable battery 		
SECURITY FEATURES	<ul style="list-style-type: none"> FIPS140-2 level-1 compliant ARM® TrustZone® (Built-in) 		
WARRANTY	<ul style="list-style-type: none"> 3-year limited warranty, parts and labor 		
DIMENSIONS & WEIGHT⁶	<ul style="list-style-type: none"> 6.5"(L) x 3.4"(W) x 1.2"(H) Approx. 0.94 lb. 		

INTEGRATED OPTIONS⁷

- 1D/2D barcode reader (Standard on all models)
- Optional magnetic stripe reader with hand strap and stylus
- Certified ANSI 12.12.01 for hazardous locations

ACCESSORIES

<ul style="list-style-type: none"> AC Adapter (60W) for Device and Desktop Cradle⁸ AC Adapter (110W) for 4-Bay Cradle and 4-Bay Battery Charger (included with both cradles) Car/DC Adapter 4-Bay Battery Charger (110W power adapter included) Hand Strap with Stylus (corner rings included) Battery Pack 	<ul style="list-style-type: none"> CF-AA6373AM CF-AA5713AM CF-AAV1601AW FZ-VCBX111M TBD FZ-VZSUX100J
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Please consult your reseller or Panasonic representative before purchasing.

¹ 1GB = 1,000,000,000 bytes.

² Total usable memory will be less depending upon actual system configuration.

³ 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.

⁴ Does not guarantee operation of all USB-compatible peripherals.

⁵ 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. Talk time may change according to cellular network condition. Measured with VOIP application. Voice and data coming 2016.

⁶ Length measurements do not include protrusions. Weight varies with options.

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

⁸ The AC adapter is compatible with power sources up to 240V AC adapter. The AC adapter is sold separately.



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TOUGH PAD



TOUGHPAD FZ-X1

- Android™ Operating System
- Qualcomm® Quad-core Processor
- MIL-STD-810G, 10' Drop, All-weather IP65 and IP68 Dust and Water-resistant Design
- 14-hour Hot-swappable Battery
- Integrated Barcode Reader, Optional Magstripe Reader and Certified ANSI 12.12.01 for Hazardous Locations
- Glove-enabled Multi Touch Daylight-readable Display
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TOUGHPAD FZ-X1



DURABILITY

- 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

- Android™ (4.2.2)

CPU

- Qualcomm® APQ8064T 1.7GHz Quad-core

STORAGE & MEMORY

- Memory 2GB^{1,2}
- Storage 32GB^{1,2}
 - Up to 64GB additional with optional microSDXC card³

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)⁴ 4-pin
- Headphone & microphone Mini-jack stereo

WIRELESS

- IEEE802.11 a/b/g/n/ac
- 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 SUPPLY⁵

- Li-Ion battery pack 3.8V, 6200mAh
- Battery operation:
 - 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-swappable battery

SECURITY FEATURES

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

WARRANTY

- 3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT⁶

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

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ACCESSORIES⁸

- AC Adapter (60W) for Device and Desktop Cradle⁸ 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
- 4-Bay Battery Charger (110W power adapter included) FZ-VCBX111M
- Hand Strap with Stylus (corner rings included) TBD
- Battery Pack FZ-V2SUX100J

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