



TOUGH PAD FZ-E1

- Windows 10 IoT Mobile Enterprise Operating System
- Qualcomm® quad-core processor
- Optional dual SIM multi-carrier 4G LTE data support with cellular voice capability
- High volume 100db speaker with noise suppression and echo cancellation microphone
- MIL-STD-810G; 10' Drop; All-weather IP65 and IP67 dust and water-resistant design
- 14-hour Hot-swappable battery
- Integrated barcode reader
- Integrated options: Magstripe Reader or DEX connection or Gun grip
- Optional ANSI certification 12.12.01 for hazardous locations
- Patented rain sensing and glove touch enabled screen technology with 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 MOBILE COMPUTER, WITH VOICE AND DATA TECHNOLOGY

Panasonic Toughpad® FZ-E1 is the world's most rugged 5" handheld, with optional data and voice technology. This fully-rugged handheld is MIL-STD-810G and both IP65 & IP68 tested with a 10' drop resistance, an operating temperature of -4°F to 140°F and a glove-enabled multi touch daylight readable display. The Toughpad® FZ-E1 boasts 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.

TOUGHBOOK®

TOUGHPAD FZ-E1

DURABILITY	<ul style="list-style-type: none"> MIL-STD-810G (shock, vibration, rain, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, humidity) 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	<ul style="list-style-type: none"> Windows 10 IoT Mobile Enterprise 						
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} 						
STORAGE EXPANSION	<ul style="list-style-type: none"> microSDXC³ 						
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 IPS 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 100 db 						
KEYBOARD & INPUT	<ul style="list-style-type: none"> 10-point gloved multi touch + digitizer screen 2-4 buttons (user-definable) On-screen QWERTY keyboard 1D/2D barcode reader 						
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 						
INTERFACE	<table> <tr> <td>Docking connector</td><td>13-pin</td></tr> <tr> <td>USB 2.0 (x 1)</td><td>4-pin</td></tr> <tr> <td>Headphone & microphone</td><td>Mini-jack stereo</td></tr> </table>	Docking connector	13-pin	USB 2.0 (x 1)	4-pin	Headphone & microphone	Mini-jack stereo
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USB 2.0 (x 1)	4-pin						
Headphone & microphone	Mini-jack stereo						
WIRELESS	<ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> Felica Type A, Type B 						
POWER SUPPLY⁵	<ul style="list-style-type: none"> Li-Ion battery pack 3.8V, 6200mAh Battery operation: <ul style="list-style-type: none"> Standby up to 1000 hours; Talk up to 23 hours; Barcode up to 20.5 hours Bridge battery: <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 hours; Power off approx. 3 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

- 3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT⁶

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

INTEGRATED OPTIONS

- Optional Gun Grip Accessory
- Optional magnetic stripe reader with hand strap and stylus
- Optional DEX Cable attachment
- Certified ANSI 12.12.01 for hazardous locations

ACCESSORIES⁷

- AC Adapter (60W) for Device and Desktop Cradle⁸ (sold separately from device, included with cradle) CF-AA6373AM
- AC Adapter (110W) for 4-Bay Cradle and 4-Bay Battery Charger (included with both cradles) CF-AA5713AM
- Desktop Cradle with Spare Battery Charging Slot (60W power adapter included) FZ-BCRD111
- 4-Bay Cradle (110W power adapter included) FZ-VEBX121M
- 4-Bay Battery Charger (110W power adapter included) FZ-VCBX111M
- Hand Strap with Stylus (corner rings included) FZ-BHDST112
- Holster and Belt FZ-VSTX111U
- Battery Pack FZ-VZSUX100J
- Shoulder Strap (corner rings included) TBCX1SSTP-P
- Durastrap Kit (Includes waterproof, sanitizable shoulder strap and attachment hardware) TBCX1DURA-P
- Protective Film (10films/kit) FZ-VPFX11U
- Gun Grip FZ-WGGX111
- Pistol Grip FZ-VGGX111U
- MSR kit (including Hand Strap + Stylus) FZ-BMSR113
- Gamber-Johnson Powered Cradle Kit 7170-0227-P
- Gamber-Johnson Powered vehicle dock 7160-0564-P
- LIND DC/DC Car Charger 80W 12-32 Volt input CF-LNDDC80
- LIND AC/DC/DC with USB Car/Air Charger 90W 12-16 Volt or AC input CF-LNDACDC90
- LIND DC/DC Mil-Spec Charger 90W 12-32 Volt input CF-LNDMLDC90
- LIND DC/DC Isolated Forklift Charger 20-60 VDC input CF-LNDDC80I

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.

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.

