



## TOUGHPAD FZ-X1

- Android 5.1.1
- 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

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

The Panasonic FZ-X1 is the world's most rugged 5" handheld mobile computer, with optional cellular 4G LTE data, and voice. This ultra-rugged handheld is MIL-STD-810G and IP65/68 certified with a 10' drop resistance specification, operating temperature of -4°F to 140°F and a glove-touch enabled multi touch daylight-readable display. The FZ-X1 boasts the world's longest battery life for a handheld mobile computer, with 14 hours of continuous data access. The battery quickly charges to 50% in just one hour, and is hot-swappable. There is an integrated 2D barcode reader and customized options of: Magstripe reader, or DEX connection or a gun grip. Option for ANSI 12.12.01 certified units for hazardous locations also.

10-FOOT  
DROP RATING

IP65

IP68

MIL-STD-  
810G

1.800.662.3537

[us.panasonic.com/toughpad/X1](http://us.panasonic.com/toughpad/X1)

**TOUGHBOOK®**

# TOUGHPAD FZ-X1

<b>DURABILITY</b>	<ul style="list-style-type: none"> <li>MIL-STD-810G (shock, vibration, rain, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, humidity)</li> <li>IP65 and IP68 sealed all-weather design (submersible up to 5' for 30 minutes)</li> <li>10' drop-resistant</li> <li>Operating temperature of -4°F to 140°F</li> <li>Port covers</li> <li>Raised bezel for LCD impact protection</li> </ul>		
<b>SOFTWARE</b>	<ul style="list-style-type: none"> <li>Android™ Lollipop (5.1.1)</li> </ul>		
<b>CPU</b>	<ul style="list-style-type: none"> <li>Qualcomm® APQ8064T 1.7GHz Quad-core</li> </ul>		
<b>STORAGE &amp; MEMORY</b>	<ul style="list-style-type: none"> <li>Memory 2GB<sup>1,2</sup></li> <li>Storage 32GB<sup>1,2</sup> <ul style="list-style-type: none"> <li>Up to 64GB additional with optional microSDXC card<sup>3</sup></li> </ul> </li> </ul>		
<b>DISPLAY</b>	<ul style="list-style-type: none"> <li>5" high definition 1280 x 720 daylight-viewable display</li> <li>10-point capacitive gloved multi touch with glove touch mode <ul style="list-style-type: none"> <li>Rain sensing touch mode</li> <li>2-500 nit</li> <li>IPS display with direct bonding</li> <li>Anti-reflective and anti-glare screen treatments</li> <li>Automatic screen rotation</li> </ul> </li> </ul>		
<b>AUDIO</b>	<ul style="list-style-type: none"> <li>Integrated microphone x 3</li> <li>Loud volume twin speakers 100 db</li> </ul>		
<b>KEYBOARD &amp; INPUT</b>	<ul style="list-style-type: none"> <li>10-point gloved multi touch + digitizer screen</li> <li>2-4 buttons (user-definable)</li> <li>On-screen QWERTY keyboard</li> <li>1D/2D barcode reader</li> </ul>		
<b>SENSORS</b>	<ul style="list-style-type: none"> <li>Ambient light sensor, digital compass, gyro and acceleration sensors</li> </ul>		
<b>CAMERAS</b>	<ul style="list-style-type: none"> <li>HD 1.3MP webcam</li> <li>8MP rear camera with LED light</li> </ul>		
<b>EXPANSION</b>	<ul style="list-style-type: none"> <li>microSDXC <ul style="list-style-type: none"> <li>Up to 64GB<sup>3</sup></li> </ul> </li> </ul>		
<b>INTERFACE</b>	<table border="0"> <tr> <td> <ul style="list-style-type: none"> <li>Docking connector</li> <li>USB 2.0 (x 1)<sup>4</sup></li> <li>Headphone &amp; microphone</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>13-pin</li> <li>4-pin</li> <li>Mini-jack stereo</li> </ul> </td> </tr> </table>	<ul style="list-style-type: none"> <li>Docking connector</li> <li>USB 2.0 (x 1)<sup>4</sup></li> <li>Headphone &amp; microphone</li> </ul>	<ul style="list-style-type: none"> <li>13-pin</li> <li>4-pin</li> <li>Mini-jack stereo</li> </ul>
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<b>WIRELESS</b>	<ul style="list-style-type: none"> <li>IEEE802.11 a/b/g/n/ac</li> <li>4G LTE, HSPA+, UMTS, EDGE, GPRS, CDMA 1x, EVDO Rev.A</li> <li>Micro SIM card slot x 2</li> <li>Bluetooth® v4.0 (class 1)</li> <li>GPS 2m CEP50 (±2 to 4m)</li> <li>Near Field Communication (NFC) <ul style="list-style-type: none"> <li>Felica Type A, Type B</li> </ul> </li> </ul>		
<b>POWER SUPPLY<sup>5</sup></b>	<ul style="list-style-type: none"> <li>Li-Ion battery pack 3.8V, 6200mAh</li> <li>Battery operation: <ul style="list-style-type: none"> <li>Standby up to 1000 hours; Talk up to 23 hours; Barcode up to 20.5 hours</li> </ul> </li> <li>Bridge battery: <ul style="list-style-type: none"> <li>30 seconds to 2 minutes</li> </ul> </li> <li>Continuous use data: <ul style="list-style-type: none"> <li>14 hours</li> </ul> </li> <li>Battery charging time: <ul style="list-style-type: none"> <li>Power on approx. 3 hours; Power off approx. 3 hours; 50% charge in approx. 1 hour</li> </ul> </li> <li>AC adapter sold separately</li> </ul>		
<b>POWER MANAGEMENT</b>	<ul style="list-style-type: none"> <li>Consumption approx. 18W</li> <li>Hot-swappable battery</li> </ul>		
<b>SECURITY FEATURES</b>	<ul style="list-style-type: none"> <li>FIPS140-2 level-1 compliant</li> <li>ARM® TrustZone® (Built-in)</li> </ul>		

<b>WARRANTY</b>	<ul style="list-style-type: none"> <li>3-year limited warranty, parts and labor</li> </ul>
<b>DIMENSIONS &amp; WEIGHT<sup>6</sup></b>	<ul style="list-style-type: none"> <li>6.5" (L) x 3.4" (W) x 1.2" (H)</li> <li>Approx. 0.94 lb.</li> </ul>

<b>INTEGRATED OPTIONS</b>	<ul style="list-style-type: none"> <li>Optional Gun Grip</li> <li>Optional magnetic stripe reader with hand strap and stylus</li> <li>Optional DEX Cable attachment</li> <li>Certified ANSI 12.12.01 for hazardous locations</li> </ul>
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<b>ACCESSORIES<sup>7</sup></b>	
<ul style="list-style-type: none"> <li>AC Adapter (60W) for Device and Desktop Cradle<sup>8</sup> (sold separately from device, included with cradle)</li> </ul>	CF-AA6373AM
<ul style="list-style-type: none"> <li>AC Adapter (110W) for 4-Bay Cradle and 4-Bay Battery Charger (included with both)</li> </ul>	CF-AA5713AM
<ul style="list-style-type: none"> <li>Desktop Cradle with Spare Battery Charging Slot (60W power adapter included)</li> </ul>	FZ-BCRD111
<ul style="list-style-type: none"> <li>4-Bay I/O Cradle (110W power adapter included)</li> </ul>	FZ-VEBX121M
<ul style="list-style-type: none"> <li>4-Bay Battery Charger (110W power adapter included)</li> </ul>	FZ-VCBX111M
<ul style="list-style-type: none"> <li>Hand Strap with Stylus (corner rings included)</li> </ul>	FZ-BHDST112
<ul style="list-style-type: none"> <li>Holster and Belt</li> </ul>	FZ-VSTX111U
<ul style="list-style-type: none"> <li>Battery Pack</li> </ul>	FZ-VZSUX100J
<ul style="list-style-type: none"> <li>Shoulder Strap (corner rings included)</li> </ul>	TBCX1SS5T-P
<ul style="list-style-type: none"> <li>Durastrap Kit (Includes waterproof, sanitizable shoulder strap and attachment hardware)</li> </ul>	TBCX1DURA-P
<ul style="list-style-type: none"> <li>Toughmate Holster with Belt and Shoulder Strap</li> </ul>	TBCX1HSTR-P
<ul style="list-style-type: none"> <li>Toughmate Hand Strap for FZ-X1 /E1</li> </ul>	TBCX1HDSTP-P
<ul style="list-style-type: none"> <li>Protective Film (10films/kit)</li> </ul>	FZ-VPFX11U
<ul style="list-style-type: none"> <li>Gun Grip Accessory (Cheat and Gun Grip)</li> </ul>	FZ-VGGX111U
<ul style="list-style-type: none"> <li>Gamber-Johnson Powered vehicle dock</li> </ul>	7160-0564-P
<ul style="list-style-type: none"> <li>LIND DC/DC Car Charger 80W 12-32 Volt input</li> </ul>	CF-LNDDC80
<ul style="list-style-type: none"> <li>LIND AC/DC/DC with USB Car/Air Charger 90W 12-16 Volt or AC input</li> </ul>	CF-LNDADC90
<ul style="list-style-type: none"> <li>LIND DC/DC Mil-Spec Charger 90W 12-32 Volt input</li> </ul>	CF-LNLDLDC90
<ul style="list-style-type: none"> <li>LIND DC/DC Isolated Forklift Charger 20-60 VDC input</li> </ul>	CF-LNDDC80I

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. Talk time may change according to cellular network condition. Measured with VOIP application.

<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.



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