



TOUGHPAD FZ-F1

- Windows 10 IoT Mobile Enterprise
- Angled barcode scanner increases productivity
- Industry leading quad-core processor by Qualcomm®
- High volume 100db speaker with noise suppression and echo cancellation microphone (for VoIP solutions)
- MIL-STD-810G, 6' Drop, All-weather IP65 and IP67 Dust and Water-resistant design
- Patented rain sensing and glove touch enabled screen technology
- 3 Year Warranty with business class support

6-FOOT
DROP RATING

IP65

IP67

MIL-STD-
810G

FULLY RUGGED, SECURE AND MANAGEABLE HANDHELD FOR THE ENTERPRISE WITH A UNIQUE BARCODE READER DESIGN

Slim, lightweight, powerful, the fully-rugged handheld Panasonic Toughpad® FZ-F1 is the all-in-one tool you've been waiting for. With a quad-core processor, angled rear-facing barcode scanner and a warm-swappable battery, it's ready to go to work. The Toughpad FZ-F1 comes with the Windows 10 IoT Mobile Enterprise Operating System with enterprise-grade security, manageability and native device interoperability that enables the Internet of Things. And it's built to take a six-foot drop or a downpour, so it even works with a wet screen or with gloves on. It is the right choice for unrelenting conditions.

The Panasonic Toughpad® FZ-F1 features everything you need in a rugged yet lightweight handheld.

1.800.662.3537

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TOUGHBOOK®

TOUGHPAD FZ-F1

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 IP67 sealed all-weather design 6' drop-resistant and tumble tested (1000 tumbles, 3.3ft. 5 rpm) Port covers Raised bezel for LCD impact protection
SOFTWARE	<ul style="list-style-type: none"> Windows 10 IoT Mobile Enterprise¹²
CPU	<ul style="list-style-type: none"> Qualcomm® MSM8974AB 2.3GHz Quad Core
STORAGE & MEMORY	<ul style="list-style-type: none"> Memory 2GB¹ Storage eMMC: 16 GB¹ <ul style="list-style-type: none"> Additional storage available with optional Storage Card: SD (up to 2 GB), SDHC (up to 32 GB), SDXC (up to 64 GB)²
DISPLAY	<ul style="list-style-type: none"> 4.7" high definition 1280 x 720 daylight-viewable display 10-point capacitive multi touch with glove touch mode <ul style="list-style-type: none"> Optional Passive pen Rain sensing touch mode⁴ 2-500 nit IPS display with direct bonding Anti-reflective screen treatments Automatic screen rotation
AUDIO	<ul style="list-style-type: none"> Integrated microphone (x 3) Loud volume twin speakers up to 100 db Noise suppression and echo cancellation engine
KEYBOARD & INPUT	<ul style="list-style-type: none"> 10-point gloved multi touch 3 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"> Full HD 5MP webcam Full HD 8MP rear camera with LED light
EXPANSION	<ul style="list-style-type: none"> microSDXC (up to 64 GB)²
INTERFACE	<ul style="list-style-type: none"> Docking connector 9-pin Micro-USB 2.0 (x 1)³ 4-pin Headphone & microphone Mini-jack stereo xPak interface 9-pin
WIRELESS	<ul style="list-style-type: none"> Qualcomm® WCN3680B IEEE802.11 a/b/g/n/ac Bluetooth® v4.1 LE (class 1) GPS 2m CEP50 (±2 to 4m) GLONAS Near Field Communication (NFC) <ul style="list-style-type: none"> Type A, Type B, Felica
POWER SUPPLY^{5,6,7,8,9}	<ul style="list-style-type: none"> Standard battery: Li-ion 3.8V, 3,200 mAh Optional long life battery: Li-ion 3.8V, 6,400mAh Standard battery operation: <ul style="list-style-type: none"> Standby up to 630 hours; Talk up to 24 hours; Barcode up to 12 hours Long life battery operation: <ul style="list-style-type: none"> Standby up to 1400 hours; Talk up to 48 hours; Barcode up to 24 hours Continuous use data: <ul style="list-style-type: none"> 8 to 16 hours Warm Swap: <ul style="list-style-type: none"> A minimum of 30 seconds Standard battery charging time: <ul style="list-style-type: none"> Power on approx. 2 hours Long Life battery charging time: <ul style="list-style-type: none"> Power on approx. 3.3 hours Micro-USB Charging capability sold separately
POWER MANAGEMENT	<ul style="list-style-type: none"> Consumption approx. 18W Warm swap battery - Keeps applications active up to 30 seconds
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 & WEIGHT^{10,11}	<ul style="list-style-type: none"> 2.9" x 6.1" x 0.6"/1.2" (barcode reader section) Approx. 0.62 lb.

KEY FEATURES

- 1D/2D barcode reader

ACCESSORIES

AC Adapter (3-prong) [Not included with the FZ-F1. The FZ-F1 must be charged from its bottom connector in a desktop cradle, or charging cup (fast charging) or a standard micro-USB charger (slow charging) using its micro-USB port at the top right side.]	CF-AA6373AM
Charging Cup with desktop stand (charge-only) for FZ-N1, FZ-F1, (No Power Supply, nor AC cord)	FZ-VCBN11U
Standard Battery 3,200mAh for FZ-N1, FZ-F1	FZ-VZSUN110U
Extended Battery with extended battery cover 6,400mAh for FZ-N1, FZ-F1	FZ-VZSUN120U
Single Bay Desktop I/O Cradle for FZ-N1, FZ-F1, built-in single battery charger (No Power Supply, nor AC cord)	FZ-VEBN111U
4-Bay Desktop I/O Cradle for FZ-N1, FZ-F1 with 110W Power Supply and AC cord	FZ-VEBN121M
4-Bay Battery Charger for FZ-N1, FZ-F1 with 110W Power Supply and AC cord	FZ-VCBN121M
Passive (optional) Stylus	CF-VNP021U
Protective Film (10 Sheets) for FZ-N1, FZ-F1	FZ-VPFN11U
Holster with belt for FZ-N1, FZ-F1	FZ-VSTN12U
Hand strap (Large) for FZ-N1, FZ-F1	FZ-VSTN11U

Please consult your reseller or Panasonic representative before purchasing. Specifications given herein may be changed at any time without prior notice.

¹ 1 MB = 1,048,576 bytes, 1 GB = 1,073,741,824 bytes

² Operation has been tested and confirmed using the following Panasonic brand memory cards: SD (up to 2 GB), SDHC (up to 32 GB), SDXC (up to 64 GB). Compatibility with other SD devices is not guaranteed.

³ Does not guarantee operation of all USB-compatible peripherals.

⁴ 1 finger point touch is available for rain sensing touch mode

⁵ The AC adaptor is designed for use with power sources that supply up to 240 V AC. The included AC cord is designed for use with power sources that supply up to 300V AC.

⁶ Actual performance varies depending on usage conditions, connected peripherals, etc. Typically, operating time is reduced in colder environments.

⁷ Talk time may vary according to cellular network condition—measured with VOIP application.

⁸ When the battery is fully charged (or not being charged) and the unit is off.

⁹ Rated power consumption.

¹⁰ Actual size may vary by unit configuration.

¹¹ Average weight. Actual weight may vary by unit configuration.

¹² Product functionality cannot be guaranteed if the operating system is modified or replaced by the user or a third party.



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