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
us.panasonic.com/toughpad/F1

TOUGHBOOK®

DURABILITY
- 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
- Windows 10 IoT Mobile Enterprise[12]

CPU
- Qualcomm® MSM8974AB 2.3GHz Quad Core

STORAGE & MEMORY
- Memory 2GB[1]
- Storage eMMC: 16 GB[1]
  - Additional storage available with optional Storage Card:
    SD (up to 2 GB), SDHC (up to 32 GB), SDXC (up to 64 GB)[2]

DISPLAY
- 4.7" high definition 1280 x 720 daylight-viewable display
- 10-point capacitive multi touch with glove touch mode
  - Optional Passive pen
  - Rain sensing touch mode[4]
  - 2-500 nit
  - IPS display with direct bonding
  - Anti-reflective screen treatments
  - Automatic screen rotation

AUDIO
- Integrated microphone (x 3)
- Loud volume twin speakers up to 100 db
- Noise suppression and echo cancellation engine

KEYBOARD & INPUT
- 10-point gloved multi touch
- 3 buttons (user-definable)
- On-screen QWERTY keyboard

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

CAMERAS
- Full HD 5MP webcam
- Full HD 8MP rear camera with LED light

EXPANSION
- microSDXC (up to 64 GB)[2]

INTERFACE
- Docking connector — 9-pin
- Micro-USB 2.0 (x 1)[3] — 4-pin
- Headphone & microphone — Mini-jack stereo
- xPak interface — 9-pin

WIRELESS
- 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)
  - Type A, Type B, Felica

POWER SUPPLY[5,6,7,8,9]
- Standard battery: Li-ion 3.8V, 3,200 mAh
- Optional long life battery: Li-ion 3.8V, 6,400mAh
- Standard battery operation:
  - Standby up to 630 hours; Talk up to 24 hours; Barcode up to 12 hours
- Long life battery operation:
  - Standby up to 1400 hours; Talk up to 48 hours; Barcode up to 24 hours
- Continuous use data:
  - 8 to 16 hours
- Warm Swap:
  - A minimum of 30 seconds
- Standard battery charging time:
  - Power on approx. 2 hours
- Long Life battery charging time:
  - Power on approx. 3.3 hours
- Micro-USB Charging capability sold separately

POWER MANAGEMENT
- Consumption approx. 18W
- Warm swap battery - Keeps applications active up to 30 seconds

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

WARRANTY
- 3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT[10,11]
- 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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                    LASER RADIATION
                 DO NOT STARE INTO BEAM
                   CLASS 2 LASER PRODUCT
                    1mW MAX   630-690 nm
                EN 60825-1:2007  IEC60825-1:2007
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