FULLY RUGGED HANDHELD WITH THE ANDROID OPERATING SYSTEM AND UNIQUE BARCODE READER DESIGN

The Panasonic Toughbook® FZ-N1—a powerful, slim and fully rugged handheld. It’s the all-in-one tool you’ve been waiting for, and it’s ideal for where work takes you each day. With an octa-core processor, angled rear-facing barcode reader, optional stylus pen, and long-lasting battery that is warm-swappable; you won’t miss a beat. And when a flexible device is in demand, the Toughbook FZ-N1 delivers the Android operating system, giving you the ability to develop in an open environment with thousands of enterprise grade applications at your fingertips from the Google Play store or Panasonic’s partners: independent software vendors (ISVs) and resellers/integrators. Plus, with built-in multi-carrier 4G LTE, voice capabilities, and dual SIM cards, the Toughbook FZ-N1 is ready to go where business takes you. And if it takes a seven-foot drop, don’t worry—it can handle it, making it the choice for unrelenting conditions. So take it to work. It can take it.

Android™ 8.1 (Oreo™)
Angled barcode scanner increases productivity
Industry leading octa-core processor by Qualcomm®
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, 7' Drop, All-weather IP66 and IP68 Dust and Water-resistant design
Patented rain sensing and glove touch enabled screen technology
3 Year Warranty with business class support
Available with P.180 for seamless global connectivity

1.800.662.3537
na.panasonic.com/ToughbookN1
TOUGHBOOK FZ-N1

DURABILITY
- MIL-STD-810G Certified
- IP64 and IP68 sealed all-weather design
- 7” drop resistant and tumble tested [1000 tumbles, 3.3ft. 5 rpm]
- Port covers
- Raised bezel for LCD impact protection

SOFTWARE
- Android 8.1 (Oreo)

CPU
- Qualcomm® SDM660-2 64-bit 2GHzx4+1.8GHzx4 Octa-Core

STORAGE & MEMORY
- Memory 32GB
- Storage eMMC: 32GB
- 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 or Active Stylus
- Rain sensing touch mode³
- 2-500 nit
- Display with direct bonding
- Anti-reflective treatments
- Automatic screen rotation

AUDIO
- Integrated microphone (x3)
- Loud volume twin speakers up to 100 dB
- Noise suppression and echo cancellation engine

KEYBOARD & INPUT
- 10-point glove multi touch
- 5 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 option to be host 4-pin
- or client interface 2.0 (x1)³
- Headphone & microphone Mini-jack stereo
- xPak interface 9-pin

WIRELESS
- Qualcomm® WCN3980 IEEE802.11 a/b/g/n/ac/802.11ah
- Qualcomm® SDM660 - 4G LTE with C.A., HSPA+, UMTS
- Certified with Verizon, AT&T (Voice and Data) and P.180 (Data only)¹³
- Certified with Verizon, AT&T (Voice and Data) and P.180 (Data only)¹³
- Samsung SIM card slot (x2)
- Bluetooth® v5.0 class 1 [Classic Mode/Low Energy Model]
- GPS 2m CEP50 (±2 to 4m) GLONAS
- Near Field Communication (NFC)
- On-screen QWERTY keyboard
- 5 buttons (user-definable)

POWER SUPPLY¹¹²¹¹
- Standard battery: Li-ion 3.8V, 3,200 mAh
- Optional long life battery: Li-ion 3.8V, 4,400mAh
- Standard battery operation:
  - Standby up to 700 hours; Talk up to 24 hours; Barcode up to 12 hours
  - Long life battery operation:
  - Standby up to 1120 hours; Talk up to 38 hours; Barcode up to 19 hours
- Continuous use data:
  - 8 to 14 hours¹
- Warm Swap:
  - A minimum of 30 seconds
- Standard battery charging time:
  - Power on or off approx. 2 hours
- Long Life battery charging time:
  - Power on or off approx. 4 hours
- Micro-USB charging capability sold separately

POWER MANAGEMENT
- Consumption approx. 15W
- Warm swap battery - Keeps applications active minimum of 30 seconds

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

WARRANTY
- 3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT¹¹²¹¹
- 2.9” x 6.1” x 0.4”/1.2” (barcode reader section)
- Approx. 0.61 lb. with Standard Battery, 0.81 lb. with long life battery

KEY FEATURES
- 1D/2D barcode reader (SE4750) with LED and laser crosshairs

ACCESSORIES
- AC Adapter (3-prong) (Not included with the FZ-N1)
- AC Adapter (3-prong) (Not included with the FZ-N1)
- Standard battery 3,200mAh
- Long life battery charging time:
  - Warm Swap:
  - Continuous use data:
  - Long life battery operation:
  - Standard battery operation:
  - Single Bay Desktop/iO Cradle
  - Built-in single battery charger (No power supply nor AC cord)
  - 5-Bay Desktop charge-only cradle with 110W power supply and AC cord
  - 5-Bay Desktop Ethernet iO and charging cradle 110W power supply and AC cord
  - 4-Bay Desktop/iO Cradle with 110W power supply and AC cord
  - 5-Bay Desktop battery charger with 110W power supply and AC cord
  - 4-Bay Battery Charger with 110W power supply and AC cord
  - Gamber-Johnson vehicle cradle (no electronics), Lock (Keyed-alike)
  - Gamber-Johnson vehicle dock (no pass)
  - LIND DC/DC Car Charger 12V-32 Volt input
  - LIND DC/DC with USB Car/Access Charger 12V-32 Volt input
  - LIND DC/DC Mil-Spec Charger 90W 12-32 Volt input
  - LIND DC/DC Isolated Forklift Charger 20-60 VDC input
  - Passive (optional) Stylus
  - Protective Film (10 Sheets)
  - Holster with belt
  - Hand strap (Large)
  - Infocase Holder includes a belt and shoulder strap
  - Infocase Large-X-Lg Hand strap
  - Infocase Large-X-Lg - T Strap
  - Infocase Enhanced Strap

1. Specifications given herein may be changed at any time without prior notice. Please consult your reseller or Panasonic representative before purchasing.
2. Operation has been tested and confirmed using the following Panasonic’s 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. A third party.
4. 1 finger point touch is available in rain sensing touch mode
5. Rated power consumption.
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 different network conditions.
8. Made with material that is designed for use with power sources that supply to 240V AC.
9. Does not guarantee operation of all USB-compatible peripherals.
10. The AC adapter is designed for use with power sources that supply up to 240V AC. The included AC cord is designed for use with power sources that supply up to 300V AC.
11. The AC adapter is designed for use with power sources that supply up to 300V AC. The included AC cord is designed for use with power sources that supply up to 300V AC.
12. The AC adapter is designed for use with power sources that supply up to 300V AC. The included AC cord is designed for use with power sources that supply up to 300V AC.
13. For more information about P.180, please visit PanasonicP180.com.
16. Additional storage available with optional Storage Card: SD (up to 2 GB), SDHC (up to 32 GB), SDXC (up to 64 GB)²
17. 1 MB = 1,048,576 bytes, 1 GB = 1,073,741,824 bytes