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

The Panasonic TOUGHBOOK® 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 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 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.

TOUGHBOOK N1

- 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
**Toughbook FZ-N1 mk2**

**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 Octa-Core

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

**DISPLAY**
- 4.7” high definition 1280 x 720 daylight-readable display
- 10-point capacitive multi-touch with glove touch mode
- Optional Passive or Active Stylus
- Rain sensing touch mode
- 2-500 nit
- Display with direct bonding
- Anti-reflective treatments
- Automatic screen rotation

**AUDIO**
- Integrated microphone (x2)
- 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**
- microSD (up to 64GB)

**INTERFACE**
- Docking connector
- Micro-USB option to be host or client interface
- Headphone & microphone
- XPAK interface

**WIRELESS**
- Qualcomm® WCN3980 IEEE802.11 a/b/g/n/ac/TH/5GHz
- Qualcomm® SDM660 - 4G LTE with C.A., HSPA+, UMTS
- Qualcomm® WCN3980 IEEE802.11 a/b/g/n/ac/r/d/h/i/k/v/w
- xPak interface 9-pin
- Micro-USB option to be host 4-pin

**POWER MANAGEMENT**
- Standard battery: Li-ion 3.8V, 3,200 mAh
- Optional long life battery: Li-ion 3.8V, 6,400 mAh
- Standard battery operation:
  - Talk-up to 27 hours; Approx. 12 hours depending on user profile.
  - Long life battery operation:
  - Talk-up to 44 hours; Approx. 19 hours depending on user profile.
- Continuous use data:
  - 8 to 16 hours
- 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. 3.3 hours
- Micro-USB charging capability sold separately

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

**ACCESSORIES**
- AC Adapter (3-prong) (Not included with the FZ-N1. CF-AA6373AM
- The FZ-N1 must be charged from its bottom connector in a desktop cradle, powered vehicle dock or charging cup (fast charging) or a standard micro USB charger (slow charging) using its micro-USB port at the top right side.
- Charging Cup with desktop stand (charge-only) (No power supply nor AC cord)
- Standard battery 3,200mAh
- Long life battery 6,400mAh
- Long life battery with long life battery cover 6,400mAh
- Single Bay Desktop I/O Cradle (Built-in single battery charger) (No power supply nor AC cord)
- 5-Bay Desktop charge-only with 110W power supply and AC cord
- 5-Bay Desktop Ethernet I/O and charging cradle 110W power supply and AC cord
- 4-Bay Desktop I/O 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), for the FZ-N1, Powered, Lock (Keyed-alike)
- LIND DC/DC Car Charger 18W 12-22 Volt input
- LIND DC/DC with USB Car/Army Charger 90W 12-16 Volt input
- LIND DC/DC Mali-Spec Charger 90W 12-22 Volt input
- LIND DC/DC Isolated Forklift Charger 20-60 VDC input
- Passive (optional) Stylus
- Active (optional) Stylus
- Protective Film (10 sheets)
- Holster with belt
- Hand strap (large)
- InfoCase Stylus Holster includes a belt and shoulder strap
- InfoCase Large-X-Lg Hand strap
- InfoCase Large-X-Lg - T Strap
- InfoCase Enhanced Stylus

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

**1.800.662.3537**
na.panasonic.com/TOUGHBOOKN1

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