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.
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 2.2GHzx4 1.8GHzx4 Octa-Core

STORAGE & MEMORY
- Memory 3GB
- Storage eMMC: 32 GB
- Additional storage available with optional Storage Card: SD (up to 2 GB), SDHC (up to 32 GB), SDXC (up to 64 GB)

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 mode: 2-500 nits
- 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 gloved multi touch
- 5 buttons (user-definable)
- On-screen QWERTY keyboard

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

CAMERAS
- Full HD SLP webcam
- Full HD SLP rear camera with LED light

EXPANSION
- microSDXC (up to 64 GB)

INTERFACE
- Docking connector: 9-pin
- Micro-USB option to be host 4-pin
- xPak interface: 9-pin
- Headphone & microphone: Mini-jack stereo

WIRELESS
- Qualcomm® WCN3980 IEEE802.11 a/b/g/n/ac/r/d/h/i/k/v/w
- Bluetooth® v5.0 class 1 (Classic Mode/Low Energy Mode)
- Nano SIM card slot (x2)
- Certified with Verizon, AT&T (Voice and Data) and P.180 (Data only)
- Qualcomm® WCN3980 IEEE802.11 a/b/g/n/ac/r/d/h/i/k/v/w
- Bluetooth® v5.0 class 1 (Classic Mode/Low Energy Mode)
- xPak interface: 9-pin
- Headphone & microphone: Mini-jack stereo

POWER SUPPLY
- 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 14 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

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)

WARRANTY
- 3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT
- 2.9” x 6.1” x 0.4” (2.1” barcode reader section)
- Approx. 0.61 lb. with Standard Battery, 0.81 lb. with long life battery

1.800.662.3537
na.panasonic.com/TOUGHBOOKN1

TOUGHBOOK N1

Android, Google, and Google Play are trademarks of Google Inc. Oreo is a trademark of Mondelez International, Inc. group. Panasonic is constantly enhancing product specifications and accessories. Specifications subject to change without notice. Trademarks are property of their respective owners. ©2018 Panasonic Systems Corporation of North America. All rights reserved. Toughbook FZ-N1 mk2 Spec Sheet 12/18. PSC-M17579bSS

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

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 - The AC adaptor is designed for use with power sources that supply up to 240 V AC. The included AC cord should be used for the FZ-N1, powered, Lock (Keyed-alike)
5 - The AC adaptor is designed for use with power sources that supply up to 240 V AC. The included AC cord should be used for the FZ-N1, powered, Lock (Keyed-alike)
6 - FIPS140-2 level-1 compliant
7 - Warm swap battery - Keeps applications active minimum of 30 seconds
8 - Rated power consumption. Actual performance varies depending on usage conditions, connected peripheral, etc. Typically, operating time is reduced in colder environments.
9 - Talk time may vary according to cellular network condition. Measured with VOSP application.
10 - Talk time may vary according to battery life. The battery is fully charged (or not being charged) and the unit is off.
11 - The AC adaptor is designed for use with power sources that supply up to 240 V AC. The included AC cord should be used for the FZ-N1, powered, Lock (Keyed-alike)
12 - Since a third party. For more information about P.180, please visit, PanasonicP180.com
13 - For more information about P.180, please visit, PanasonicP180.com
14 - The AC adaptor is designed for use with power sources that supply up to 240 V AC. The included AC cord should be used for the FZ-N1, powered, Lock (Keyed-alike)

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

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 - The AC adaptor is designed for use with power sources that supply up to 240 V AC. The included AC cord should be used for the FZ-N1, powered, Lock (Keyed-alike)
5 - The AC adaptor is designed for use with power sources that supply up to 240 V AC. The included AC cord should be used for the FZ-N1, powered, Lock (Keyed-alike)
6 - FIPS140-2 level-1 compliant
7 - Warm swap battery - Keeps applications active minimum of 30 seconds
8 - Rated power consumption. Actual performance varies depending on usage conditions, connected peripheral, etc. Typically, operating time is reduced in colder environments.
9 - Talk time may vary according to cellular network condition. Measured with VOSP application.
10 - When the battery is fully charged (or not being charged) and the unit is off.
11 - The AC adaptor is designed for use with power sources that supply up to 240 V AC. The included AC cord should be used for the FZ-N1, powered, Lock (Keyed-alike)
12 - Since a third party. For more information about P.180, please visit, PanasonicP180.com
13 - For more information about P.180, please visit, PanasonicP180.com
14 - The AC adaptor is designed for use with power sources that supply up to 240 V AC. The included AC cord should be used for the FZ-N1, powered, Lock (Keyed-alike)