



## TOUGHBOOK FZ-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<sup>15</sup>
- 3 Year Warranty with business class support

7-FOOT  
DROP RATING

IP66

IP68

MIL-STD-  
810G

## 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.

# TOUGHBOOK FZ-N1

<b>DURABILITY</b>	<ul style="list-style-type: none"> <li>MIL-STD-810G (shock, vibration, rain, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, humidity)</li> <li>IP66 and IP68 sealed all-weather design</li> <li>7' drop-resistant and tumble tested (1000 tumbles, 3.3ft. 5 rpm)</li> <li>Port covers</li> <li>Raised bezel for LCD impact protection</li> </ul>
<b>SOFTWARE</b>	<ul style="list-style-type: none"> <li>Android 8.1 (Oreo™)</li> </ul>
<b>CPU</b>	<ul style="list-style-type: none"> <li>Qualcomm® SDM660-2 64bit 2.2GHzx4+1.8GHzx4 Octa-Core</li> </ul>
<b>STORAGE &amp; MEMORY</b>	<ul style="list-style-type: none"> <li>Memory 3GB<sup>1</sup></li> <li>Storage eMMC: 32 GB<sup>1</sup> <ul style="list-style-type: none"> <li>Additional storage available with optional Storage Card:                             <ul style="list-style-type: none"> <li>SD (up to 2 GB), SDHC (up to 32 GB), SDXC (up to 64 GB)<sup>2</sup></li> </ul> </li> </ul> </li> </ul>
<b>DISPLAY</b>	<ul style="list-style-type: none"> <li>4.7" high definition 1280 x 720 daylight-viewable display</li> <li>10-point capacitive multi touch with glove touch mode                             <ul style="list-style-type: none"> <li>Optional Passive pen</li> <li>Rain sensing touch mode<sup>4</sup> <ul style="list-style-type: none"> <li>2-500 nit</li> <li>VA display with direct bonding</li> <li>Anti-reflective and anti-glare treatments</li> <li>Automatic screen rotation</li> </ul> </li> </ul> </li> </ul>
<b>AUDIO</b>	<ul style="list-style-type: none"> <li>Integrated microphone (x3)</li> <li>Loud volume twin speakers up to 100 db</li> <li>Noise suppression and echo cancellation engine</li> </ul>
<b>KEYBOARD &amp; INPUT</b>	<ul style="list-style-type: none"> <li>10-point gloved multi touch + active stylus capability</li> <li>5 buttons (user-definable)</li> <li>On-screen QWERTY keyboard</li> </ul>
<b>SENSORS</b>	<ul style="list-style-type: none"> <li>Ambient light sensor, digital compass, gyro and acceleration sensors</li> </ul>
<b>CAMERAS</b>	<ul style="list-style-type: none"> <li>Full HD 5MP webcam</li> <li>Full HD 8MP rear camera with LED light</li> </ul>
<b>EXPANSION</b>	<ul style="list-style-type: none"> <li>microSDXC (up to 64 GB)<sup>2</sup></li> </ul>
<b>INTERFACE</b>	<ul style="list-style-type: none"> <li>Docking connector 9-pin</li> <li>Mini-USB 2.0 (x1)<sup>3</sup> 4-pin</li> <li>Headphone &amp; microphone Mini-jack stereo</li> <li>xPak interface 9-pin</li> </ul>
<b>WIRELESS</b>	<ul style="list-style-type: none"> <li>Qualcomm® WCN3980 IEEE802.11 a/b/g/n/ac/r/d/h/i/k/v/w</li> <li>Qualcomm® SDM660 - 4G LTE, HSPA+, UMTS, EDGE, GPRS, GSM, CDMA 1x, EVDO Rev.A</li> <li>Micro SIM card slot x 2</li> <li>Bluetooth® v5.0 LE (class 1)</li> <li>GPS 2m CEP50 (±2 to 4m) GLONAS</li> <li>Near Field Communication (NFC)                             <ul style="list-style-type: none"> <li>Type A, Type B, Felica</li> </ul> </li> </ul>
<b>POWER SUPPLY<sup>5,6,7,8,9</sup></b>	<ul style="list-style-type: none"> <li>Standard battery: Li-ion 3.8V, 3,200 mAh</li> <li>Optional long life battery: Li-ion 3.8V, 6,400mAh</li> <li>Standard battery operation:                             <ul style="list-style-type: none"> <li>Standby up to 700 hours; Talk up to 24 hours; Barcode up to 12 hours</li> </ul> </li> <li>Long life battery operation:                             <ul style="list-style-type: none"> <li>Standby up to 1120 hours; Talk up to 38 hours; Barcode up to 19 hours</li> </ul> </li> <li>Continuous use data:                             <ul style="list-style-type: none"> <li>8 to 16 hours<sup>14</sup></li> </ul> </li> <li>Warm Swap:                             <ul style="list-style-type: none"> <li>A minimum of 30 seconds</li> </ul> </li> <li>Standard battery charging time:                             <ul style="list-style-type: none"> <li>Power on or off approx. 2 hours</li> </ul> </li> <li>Micro-USB charging capability sold separately</li> </ul>
<b>POWER MANAGEMENT</b>	<ul style="list-style-type: none"> <li>Consumption approx. 15W</li> <li>Warm swap battery - Keeps applications active up to 1 minute</li> </ul>
<b>SECURITY FEATURES</b>	<ul style="list-style-type: none"> <li>FIPS140-2 level-1 compliant</li> <li>ARM® TrustZone® (Built-in)</li> </ul>
<b>WARRANTY</b>	<ul style="list-style-type: none"> <li>3-year limited warranty, parts and labor</li> </ul>
<b>DIMENSIONS &amp; WEIGHT<sup>10,11</sup></b>	<ul style="list-style-type: none"> <li>2.9" x 6.1" x 0.6"/1.2" (barcode reader section)</li> <li>Approx. 0.61 lb.</li> </ul>

## KEY FEATURES

- 1D/2D barcode reader
- Optional magnetic stripe reader

## ACCESSORIES

<ul style="list-style-type: none"> <li>AC Adapter (3-prong) [Not included]</li> <li>Charging Cup for FZ-N1, FZ-F1, [No power supply nor AC cord]</li> <li>Standard Battery 3,200mAh for FZ-N1, FZ-F1</li> <li>Extended Battery 6,400mAh for FZ-N1, FZ-F1</li> <li>Single Bay Cradle for FZ-N1, FZ-F1, built-in single battery charger with 60W Power Supply and AC cord</li> <li>4-Bay Cradle for FZ-N1, FZ-F1 with 110W Power Supply and AC cord</li> <li>Passive optional Stylus</li> <li>Protective Film (10 Sheets) for FZ-N1, FZ-F1</li> <li>Holster with belt for FZ-N1, FZ-F1</li> <li>Hand strap (Lrg) for FZ-N1, FZ-F1</li> </ul>	<ul style="list-style-type: none"> <li>CFAA6373AM</li> <li>FZVVCBN11U</li> <li>FZVZSUN110U</li> <li>FZVZSUN120U</li> <li>BUNFZVEBN111U</li> <li>FZVEBN121M</li> <li>CFVNP021U</li> <li>FZVPPFN11U</li> <li>FZVSTN12U</li> <li>FZVSTN11U</li> </ul>
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Please consult your reseller or Panasonic representative before purchasing. Specifications given herein may be changed at any time without prior notice.

<sup>1</sup> 1 MB = 1,048,576 bytes, 1 GB = 1,073,741,824 bytes

<sup>2</sup> 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.

<sup>3</sup> Does not guarantee operation of all USB-compatible peripherals.

<sup>4</sup> 1 finger point is available for water proof touch mode

<sup>5</sup> 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.

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

<sup>7</sup> Talk time may vary according to cellular network condition. Measured with VOIP application.

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

<sup>9</sup> Rated power consumption.

<sup>10</sup> Actual size may vary by unit configuration.

<sup>11</sup> Average weight. Actual weight may vary by unit configuration.

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



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