



## 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
- Available with P.180 for seamless global connectivity

7-FOOT  
DROP RATING

IP66

IP68

MIL-STD-  
810G

P.180  
GET WORK DONE.™

## 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®**

# TOUGHBOOK FZ-N1

<b>DURABILITY</b>	<ul style="list-style-type: none"> <li>MIL-STD-810G Certified</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: SD (up to 2 GB), SDHC (up to 32 GB), SDXC (up to 64 GB)<sup>2</sup></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 or Active Stylus</li> <li>Rain sensing touch mode<sup>4</sup></li> <li>2-500 nit</li> <li>Display with direct bonding</li> <li>Anti-reflective treatments</li> <li>Automatic screen rotation</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</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>	<table border="0"> <tbody> <tr> <td>Docking connector</td> <td>9-pin</td> </tr> <tr> <td>Micro-USB option to be host or client interface 2.0 (x1)<sup>3</sup></td> <td>4-pin</td> </tr> <tr> <td>Headphone &amp; microphone</td> <td>Mini-jack stereo</td> </tr> <tr> <td>xPak interface</td> <td>9-pin</td> </tr> </tbody> </table>	Docking connector	9-pin	Micro-USB option to be host or client interface 2.0 (x1) <sup>3</sup>	4-pin	Headphone & microphone	Mini-jack stereo	xPak interface	9-pin
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Headphone & microphone	Mini-jack stereo								
xPak interface	9-pin								
<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 with C.A., HSPA+, UMTS</li> <li>Certified with Verizon, AT&amp;T (Voice and Data) and P.180 (Data only)<sup>13</sup></li> <li>Nano SIM card slot (x2)</li> <li>Bluetooth® v5.0 class 1 (Classic Mode/Low Energy Mode)</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</b> <sup>5,6,7,8,9,14</sup>	<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>Long Life battery charging time:           <ul style="list-style-type: none"> <li>Power on or off approx. 4 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 minimum of 30 seconds</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</b> <sup>10,11</sup>	<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. with Standard Battery, 0.81 lb. with long life battery</li> </ul>								

## KEY FEATURES

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

## 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) FZ-VCBN11U
- Standard battery 3,200mAh FZ-VZSUN110U
- Long life battery 6,400mAh FZ-VZSUN120U
- Long life battery with long life battery cover 6,400mAh FZ-VZSUN120U
- Single Bay Desktop I/O Cradle built-in single battery charger (No power supply nor AC cord) FZ-VEBN111U
- 5-Bay Desktop charge-only cradle with 110W power supply and AC cord FZ-VCBN141M
- 5-Bay Desktop Ethernet I/O and charging cradle 110W power supply and AC cord FZ-VEBN141M
- 4-Bay Desktop I/O Cradle with 110W power supply and AC cord FZ-VEBN121M
- 5-Bay Desktop battery charger with 110W power supply and AC cord FZ-VCBN131M
- 4-Bay Battery Charger with 110W power supply and AC cord FZ-VCBN121M
- Gamber-Johnson vehicle cradle (no electronics), Lock (Keyed-alike) GJ-N1-VC
- Gamber-Johnson vehicle dock (no pass), for the FZ-N1, Powered, Lock (Keyed-alike) GJ-N1-VD0
- LIND DC/DC Car Charger 80W 12-32 Volt input CF-LNDDC80
- LIND AC/DC/DC with USB Car/Air Charger 90W 12-16 Volt or AC input CF-LNDACDC90
- LIND DC/DC Mil-Spec Charger 90W 12-32 Volt input CF-LNDMLDC90
- LIND DC/DC Isolated Forklift Charger 20-60 VDC input CF-LNDDC80I
- Passive (optional) Stylus CF-VNP021U
- Active (Optional) Stylus FZ-VNPN11U
- Protective Film (10 Sheets) FZ-VFPN11U
- Holster with belt FZ-VSTN12U
- Hand strap (Large) FZ-VSTN11U
- Infocase Holster includes a belt and shoulder strap TBCF1HSTR-P
- Infocase Large-X-Lg Hand strap TBCF1HDSTP-LXL-P
- Infocase Large-X-Lg - T Strap TBCF1TSTP-LXL-P
- Infocase Enhanced Strap TBCF1-EHS-P

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 touch is available in rain sensing 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 300W 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.

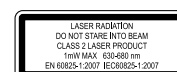
<sup>11</sup> Average weight. Actual weight may vary by unit configuration.

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

<sup>13</sup> For more information about P.180, please visit, PanasonicP180.com.

<sup>14</sup> Still confirming test results.

<sup>15</sup> US Patent No: US 9,141,245 B2; September 22, 2015



# TOUGHBOOK®