



Panasonic recommends Windows.

## TOUGHBOOK 19

- 10.1" Convertible Tablet with Touch or Multi Touch + Digitizer Display
- Sunlight-viewable up to 6000 Nit in Direct Sunlight
- Full Magnesium Alloy Case with Hand Strap
- Optional 4G LTE Multi Carrier Mobile Broadband with Satellite GPS
- Industry leading driver packages for ease of deployment and support

MIL-STD-810G

MIL-STD-461F

IP65

ANSI HAZ LOC

6-FOOT DROP RATING

## THE FIRST MIL-STD-810G CERTIFIED TABLET PC<sup>1</sup>

If you want a fully rugged, lightweight, wireless laptop that converts from a powerful notebook PC to a convenient tablet PC with one quick swivel, then the Toughbook<sup>®</sup> 19 is for you. The first tablet PC to be certified<sup>1</sup> for MIL-STD-810G and IP65, it features a full magnesium alloy case capable of withstanding a 6-foot drop<sup>1</sup>—ideal for working in challenging environments and mission-critical situations. At only five pounds, it's good on the go with a hand strap, Wi-Fi, a brilliant LED screen capable of up to 6000 nit in direct sunlight, and optional embedded 4G LTE multi carrier mobile broadband with satellite GPS. Additionally, the Toughbook 19 is available with two display options, both allowing you to touch the screen with or without gloves.

+90.216.540.67.70  
[www.pancom.com.tr](http://www.pancom.com.tr)  
[info@pancom.com.tr](mailto:info@pancom.com.tr)

**TOUGHBOOK<sup>®</sup>**

Panasonic recommends Windows.

<b>SOFTWARE</b>	<ul style="list-style-type: none"> <li>Windows 7 Professional for Embedded Systems</li> <li>Panasonic Utilities (Including Dashboard, Recovery Partition)</li> <li>Enterprise ready driver packages including CAB files and one-click driver bundles</li> </ul>		
<b>DURABILITY</b>	<ul style="list-style-type: none"> <li>MIL-STD-810G certified I6' drop, shock, vibration, rain, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, humidity, explosive atmosphere<sup>1</sup></li> <li>MIL-STD-461F certified<sup>1</sup></li> <li>IP65 certified sealed all-weather design<sup>1</sup></li> <li>Optional class I division 2, groups ABCD certified model</li> <li>Full magnesium alloy case with hand strap</li> <li>Storage drive heater</li> <li>Shock-mounted caged storage drive</li> <li>Removable quick-release battery and storage drive</li> <li>Field upgradeable 4G LTE</li> <li>Reinforced locking port covers</li> <li>Pre-installed replaceable screen film for LCD protection</li> </ul>		
<b>CPU<sup>2</sup></b>	<ul style="list-style-type: none"> <li>Intel® Core™ i5-3610ME vPro™ Processor                             <ul style="list-style-type: none"> <li>– 2.7GHz with Turbo Boost up to 3.3GHz</li> <li>– 3MB cache</li> </ul> </li> </ul>		
<b>STORAGE &amp; MEMORY</b>	<ul style="list-style-type: none"> <li>4GB, 8GB or 16GB SDRAM (DDR3L-800MHz)<sup>3</sup></li> <li>Shock-mounted storage with quick-release                             <ul style="list-style-type: none"> <li>– 500GB 7200rpm HDD with heater<sup>4</sup></li> <li>– Optional 256GB SSD with heaters<sup>5</sup></li> <li>– Optional OPAL encrypted SSD with heater</li> </ul> </li> </ul>		
<b>DISPLAY</b>	<ul style="list-style-type: none"> <li>10.1" XGA 1024 x 768                             <ul style="list-style-type: none"> <li>– Resistive touchscreen</li> <li>– 5-point resistive multi touch + digitizer</li> </ul> </li> <li>1.600 nit (depending on lighting conditions and settings)<sup>6</sup></li> <li>TransflectivePlus and Panasonic CircuLumin™ technology</li> <li>Anti-reflective (AR), anti-glare (AG), and circular polarizer</li> <li>Intel® HD Graphics 4000</li> <li>Dual monitor support</li> <li>Concealed mode (configurable)</li> </ul>		
<b>AUDIO</b>	<ul style="list-style-type: none"> <li>Intel® High Definition Audio compliant</li> <li>Integrated speaker</li> <li>Keyboard volume and mute controls</li> </ul>		
<b>KEYBOARD &amp; INPUT</b>	<ul style="list-style-type: none"> <li>Stylus pen with integrated stylus holder, tether and cleaning cloth</li> <li>6 tablet buttons</li> <li>On-screen QWERTY keyboard</li> <li>82-key with dedicated Windows® key</li> <li>Optional backlit keyboard                             <ul style="list-style-type: none"> <li>– Emissive or sealed rubber</li> <li>– Pressure-sensitive touchpad with vertical scrolling</li> </ul> </li> </ul>		
<b>INTERFACE &amp; EXPANSION</b>	<table border="0"> <tr> <td> <ul style="list-style-type: none"> <li>Docking connector</li> <li>USB 3.0 (x 1), USB 2.0 (x 1)</li> <li>SD card (SDXC)</li> <li>IEEE 1394a (FireWire)</li> <li>VGA</li> <li>10/100/1000 Ethernet</li> <li>Headphones/speaker</li> <li>Microphone</li> <li>Serial</li> <li>ExpressCard/54</li> <li>PC Card</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>100-pin Type A</li> <li>UHS-I</li> <li>4-pin</li> <li>D-sub 15-pin</li> <li>RJ-45</li> <li>Mini-jack stereo</li> <li>Mini-jack stereo</li> <li>D-sub 9-pin</li> <li>34mm or 54mm</li> <li>Type II</li> </ul> </td> </tr> </table>	<ul style="list-style-type: none"> <li>Docking connector</li> <li>USB 3.0 (x 1), USB 2.0 (x 1)</li> <li>SD card (SDXC)</li> <li>IEEE 1394a (FireWire)</li> <li>VGA</li> <li>10/100/1000 Ethernet</li> <li>Headphones/speaker</li> <li>Microphone</li> <li>Serial</li> <li>ExpressCard/54</li> <li>PC Card</li> </ul>	<ul style="list-style-type: none"> <li>100-pin Type A</li> <li>UHS-I</li> <li>4-pin</li> <li>D-sub 15-pin</li> <li>RJ-45</li> <li>Mini-jack stereo</li> <li>Mini-jack stereo</li> <li>D-sub 9-pin</li> <li>34mm or 54mm</li> <li>Type II</li> </ul>
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<b>WIRELESS</b>	<ul style="list-style-type: none"> <li>Optional 4G LTE multi carrier mobile broadband with satellite GPS</li> <li>Optional GPS (u-blox NEO-M8N)</li> <li>Dual high-gain antenna pass-through</li> <li>Intel® Centrino® Advanced-N 6235 802.11a/b/g/n</li> <li>Bluetooth® v4.0 + EDR (Class 1)</li> <li>Security                             <ul style="list-style-type: none"> <li>– Authentication: LEAP, WPA, 802.1x, EAP-TLS, EAP-FAST, PEAP</li> <li>– Encryption: CKIP, TKIP, 128-bit and 64-bit WEP, Hardware AES</li> </ul> </li> <li>Slide on/off switch</li> </ul>		
<b>POWER</b>	<ul style="list-style-type: none"> <li>Li-Ion battery pack (10.65V, typical 5700mAh, min. 5400mAh)</li> <li>Battery operation: 10 hours (touchscreen), 9.5 hours (multi touch + digitizer)<sup>7</sup></li> <li>Battery charging time: 3.5 hours<sup>8</sup></li> <li>AC Adapter: AC 100V-240V 50/60Hz, auto sensing/switching worldwide power supply</li> </ul>		
<b>POWER MANAGEMENT</b>	<ul style="list-style-type: none"> <li>Suspend/Resume Function, Hibernation, Standby</li> </ul>		
<b>SECURITY FEATURES</b>	<ul style="list-style-type: none"> <li>Password Security: Supervisor, User, Hard Disk Lock</li> <li>Kensington cable lock slot</li> <li>Trusted platform module (TPM) security chip v.1.2</li> <li>Persistence® technology by Absolute embedded in BIOS<sup>9</sup></li> <li>Optional fingerprint reader</li> <li>Optional insertable SmartCard reader</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>	<ul style="list-style-type: none"> <li>8.5"(L) x 10.7"(W) x 1.9"(H)</li> <li>5.1 lbs.</li> </ul>		

## HAZARDOUS LOCATION CERTIFICATIONS

- ANSI/ISA 2.12.01-2013
  - Optional class I division 2, groups ABCD certified model

## INTEGRATED OPTIONS<sup>7</sup>

- 4G LTE multi carrier mobile broadband with satellite GPS
- Dedicated GPS (u-blox NEO-M8N)
- 5MP rear camera<sup>8</sup>
- Backlit keyboard—emissive or sealed rubber
- Insertable SmartCard reader
- Fingerprint reader
- HDD and battery lock
- 256GB SSD with heater
- OPAL encrypted SSD with heater

## SELECT ACCESSORIES<sup>7</sup>

<ul style="list-style-type: none"> <li>AC Adapter 80W (3-prong)</li> <li>Battery Pack</li> <li>Battery Charger</li> <li>LIND Car Charger 120W</li> <li>LIND Solar Charge System</li> <li>ToughMate ComUniversal Jr. Carrying Case</li> <li>ToughMate Always-on 19 Case</li> <li>ToughMate 19 "X" Hand Strap</li> <li>ToughMate Shoulder Strap</li> <li>Memory Card 4GB<sup>9</sup></li> <li>Memory Card 8GB<sup>9</sup></li> <li>Vehicle Docks (no pass-through)                             <ul style="list-style-type: none"> <li>– Gamber-Johnson with LIND power supply</li> <li>– Havis with LIND power supply</li> </ul> </li> <li>Vehicle Docks (dual pass-through)                             <ul style="list-style-type: none"> <li>– Panasonic</li> <li>– Gamber-Johnson with LIND power supply</li> <li>– Havis with LIND power supply</li> </ul> </li> <li>Cradlepoint Router                             <ul style="list-style-type: none"> <li>– Verizon</li> <li>– AT&amp;T</li> </ul> </li> <li>Multi Touch + Digitizer Stylus</li> <li>Touchscreen Stylus</li> <li>Tether</li> <li>LCD Protector Film</li> </ul>	<ul style="list-style-type: none"> <li>CF-AA6503A2M</li> <li>CF-VZ5U48U</li> <li>CF-VCBTB2W</li> <li>CF-LNDDC120</li> <li>PASC1580-4464</li> <li>TBCCOMUJR-P</li> <li>TBC19A0CS-P</li> <li>TBC19XSTP-P</li> <li>TBCDLX55KIT-P</li> <li>CF-WMBA1304G</li> <li>CF-WMBA1308G</li> <li>7160-0264-03-P</li> <li>CF-H-PAN-212-2-P</li> <li>CF-WEB194AC</li> <li>7160-0264-04-P</li> <li>CF-H-PAN-212-2-P</li> <li>CP-IBR1100LPE-VZ</li> <li>CP-IBR1100LPE-AT</li> <li>CF-VNP012U</li> <li>CF-VNP003U</li> <li>CF-VNT002U</li> <li>CF-VPF11U</li> </ul>
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Please consult your reseller or Panasonic representative before purchasing.

<sup>1</sup>Tested by national independent third party lab following MIL-STD-810G Method 516.6 Procedure IV for transit drop test and IEC 60529 Sections 13.4, 13.6.2, 14.2.5, 14.3 and 14.3 for IP65.

<sup>2</sup>An Intel Core i7 processor is also available.

<sup>3</sup>1GB = 1,000,000,000 bytes. Total usable memory will be less depending upon actual system configuration.

<sup>4</sup>500 nit without ambient light assistance. Up to 6000 nit in clear, sunny conditions under direct sunlight.

<sup>5</sup>Battery performance features such as charge time and life span can vary according to the conditions under which the computer and battery are used. Battery operation and recharge times will vary based on many factors, including screen brightness, applications, features, power management, battery conditioning and other customer preferences. Battery testing results from MobileMark 2007.

<sup>6</sup>Requires software and activation to enable theft protection.

<sup>7</sup>Accessories and Integrated Options may vary depending on your notebook configuration. Visit Panasonic website for more accessories and details.

<sup>8</sup>Camera replaces the second memory slot located on the bottom of the PC so units with a camera can only have 4GB or 8GB.



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www.pancom.com.tr  
info@pancom.com.tr