Panasonic recommends Windows.

Panasonic



TOUGHBOOK 20

- 10.1" Fully Rugged PC For Use as a Laptop or Tablet
- Sunlight-viewable Display Works With or Without Gloves
- Optional Bridge Battery Enables Hot-swap Battery Replacement for Continuous Use
- Integrated 2nd Battery, SmartCard, Barcode, Magstripe, Fingerprint, Serial Options and More¹
- Removable Battery
- Built-in Handle Also Functions as a Kickstand





THE WORLD'S FIRST FULLY RUGGED DETACHABLE LAPTOP.

The Toughbook 20 is the first fully rugged detachable PC with a removable keyboard that quickly transforms from a laptop into a fully functioning tablet with just one hand. At only 3.9 pounds, it's good on the go with a clever built in handle that also functions as a kickstand, an optional bridge battery allows hot swappable battery replacement while running without disruption and the broadest range of ports and integrated options in its class. The Toughbook 20 display can be used with or without gloves and its sunlight-viewable 800 nit IPS display with direct bonding enables wider viewing angles and richer colors.

1-800-982-1453 wwww.RuggedDepot.com Rob@RuggedDepot.com







Panasonic recommends Windows.

SOFTWARE	 Win 10 Pro (available Windows 7 Professional downgrade option) Panasonic Utilities (including Dashboard) 	SECURITY FEATURES Password Security: Supervisor, User, Hard Disk Lock
DURABILITY	 Designed for MIL-STD-8106 (drop, shock, vibration, rain, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, humidity, explosive atmosphere) Designed for MIL-STD-461F IP65 sealed all-weather design Optional hazardous location class I division 2, groups ABCD certified model' Solid state drive heater Magnesium altoy chassis encased with ABS and elastomer edges Built-in dual purpose handle & kickstand Removable battery Optional rotating hand strap 	 Password Security: Supervisor, User, Hard Disk Lock Kensington cable lock slots x2 (on tablet and keyboard dock) Trusted platform module (TPM) security chip v.1.2 Absolute® Data & Device Security (DDS), formerly Absolute Computrace® in BIOS[®] Optional Fingerprint reader^{1,9} Optional Insertable SmartCard reader⁹ Optional Contactless SmartCard/NFC reader^{1,9} - ISO 14443 A/B compliant WARRANTY 3-year limited warranty, parts and labor
	Reinforced locking port covers Raised bezel for LCD impact protection Preinstalled replaceable screen film	DIMENSIONS & WEIGHT = 10.7" (L x 9.2" (W) x 1.3" (H) ¹⁰ = 3.9 lbs. ¹¹
CPU	Intel® Core" m5-6/57 VPro" Processor - 1.16Hz with Turbo Boost up to 2.8GHz - 4MB Cache	HAZARDOUS LOCATION CERTIFICATIONS ¹ ANSI/ISA 2.12.01-2013 - Optional class I division 2, groups ABCD certified model
STORAGE & MEMORY	 8GB SDRAM (DDR3L - 1400MHz)^{2,3} 128GB SSD with heater^{2,3} Optional 256/512GB SSD with heaters^{2,3} Optional OPAL encrypted SSD with heater (future availability) 	 INTEGRATED OPTIONS¹² Choice of dedicated GPS or 4G LTE multi carrier mobile broadband with satellite GPS Choice on tablet of 1D/2D capable barcode reader (N6603), serial (true), or second USB 2.0 port³ Choice on tablet of magstripe reader, insertable SmartCard reader, contactless SmartCard/NFC reader or fingerprint reader^{1,3} 8MP rear camera Bridge battery 256/5126B SSD with heaters OPAL encrypted SSD with heater (future availability) ACCESSORIES¹² AC Adapter (3-prong) Battery Pack 4-Bay Battery Charger LIND Car Adapter 120W ToughMate ModuFlex 20 Case ToughMate Backpack Rotating Hand Strap Desktop Dock Vehicle Docks Multi Touch Replacement Waterproof Stylus Multi Touch + Digitizer Replacement Waterproof Stylus Tether 10.1" LCD Protector Film
DISPLAY	 10.1" WUXGA 1920 x 1200 10-point capacitive glowed multi touch 10-point capacitive glowed multi touch + digitizer 2-800 nit PS display with direct bonding Anti-reflective (AR) and anti-glare (AG) screen treatments Intel HD Graphics 515 Dual monitor support Conceled mode (configurable) 	
AUDIO	Integrated dual array microphone Intel® High Definition Audio compliant Integrated speaker On-screen and button volume controls	
KEYBOARD & INPUT	 Multi Touch or Multi Touch + Digitizer Both support gloves and rain mode Tablet buttons [2 user-definable AT/A2 buttons] Waterproof IP55 stylus pen, integrated stylus holder and tether On-screen QWERTY keyboard 82-key with dedicated Windows[®] key Emissive backlit keyboard Pressure-sensitive touchpad with multi touch 	
CAMERAS	 1080p webcam with dual array mic Optional 8MP rear camera with autofocus, triple LED flash and camera on/off indicator 	Please consult your reseller or Panasonic representative before purchasing. ¹ Hazardous Location model, Contactless Smartcard/NFC, Magstripe and Fingerprint readers available early
INTERFACE & EXPANSION	On the tablet: - USB 3.0 x1 (optional 2nd USB ^{4.5}) Type A - USB 3.0 ix1 (optional 2nd USB ^{4.5}) Type A - USB 3.0 ix1 (sink powered 1.5A USB (supports Always on USB, USB rapid charging) - MicroSDXC UHS-1 - HDMI Type A - 10/100/1000 Ethernet R1-45 - Optional Serial (True) ^{k.5} D-sub 9-pin - Headphones/speaker Mini-jack stereo - Micro-SIM 3FF	Summer 2015. ² 168 = 1,000,000,000 bytes. ¹ Total usable memory will be less depending upon actual system configuration. ⁴ Barcode, Serial (true) and 2nd USB 2.0 Port are mutually exclusive. ⁵ Serial, Znd USB and the Magstripe reader integrated options increase the overall height and prohibit use in convertible mode. ⁴ Dedicated GPS and 4G LTE are mutually exclusive. ⁵ 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
	On the keyboard dock: - USB 3.0 x2, USB 2.0 x1 Type A - SDXC UHS-I - HDMI Type A - VGA D-sub 15-pin - 10/100/1000 Ethernet RJ-45 - Serial (USB) D-sub 9-pin	MobileMaik 2007. ¹ Requires software and activation to enable theft protection. ¹ Magstripe, Insertable SmartCard, Contactless SmartCard/NFC and Fingerprint Readers are mutually exclusive. ¹¹ Includes tablet and keyboard dock with handle. Tablet when detached is 10.7" (U x 7.7" (W) x 0.6" (H). Serial, 2nd USB, Magstripe reader integrated options increase overall height and prohibit use in convertible mode. ¹¹ Includes tablet and keyboard dock with handle. Tablet when detached is 2.1 lbs. Optional 2nd battery weights 0.4 lbs.
WIRELESS	 Optional 4G LTE multi carrier mobile broadband with satellite GPS⁶ Optional dedicated GPS (u-blox NEO M8N)⁶ Intel[®] Dual Band Wireless AC8260 Wi-Fi 802.11a/b/g/n/ac Intel[®] Pro Wireless Display (WiDi) Bluetooth[®] v4.1 (Class 1) + EDR Security Authentication: LEAP, WPA, 802.1x, EAP-TLS, EAP-FAST, PEAP Entrice TKIP, 128-bit and 64-bit WEP, Hardware AES Dual high-gain antenna pass-through 	¹¹ Accessories and Integrated Options may vary depending on your configuration. Visit the Panasonic website for more accessories and details.
POWER SUPPLY	 Li-lon battery pack: Standard in tablet; optional 2nd battery in keyboard dock 11.4%, 2600mAh leach battery) Battery operation: Full shift with optional 2nd battery⁷ Battery charging time: Approximately 3 hours (3.5 hours with optional 2nd battery) Optional bridge battery: 1 minute hot swap time 	
POWER MANAGEMENT	Suspend/Resume Function, Hibernation, Standby	CORE m5 inside

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