

TOUGHBOOK 20

Panasonic recommends Windows.

SOFTWARE

- Windows® 10 Pro 64-bit [available Windows 7 Professional downgrade option]
- Panasonic Utilities [including Dashboard], Recovery Partition
- Enterprise ready driver packages including CAB files and one-click driver bundles

DURABILITY

- MIL-STD-810G certified [4' drop - 5' tablet only, shock, vibration, rain, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, solar radiation, salt fog, humidity, explosive atmosphere]²
- MIL-STD-461F certified²
- IP65 certified sealed all-weather fanless design²
- Optional hazardous location class I division 2, groups ABCD certified model
- Magnesium alloy chassis encased with ABS and elastomer edges
- Built-in dual purpose handle & kickstand
- Solid state drive heater
- Removable battery
- Optional rotating hand strap
- Reinforced locking port covers
- Raised bezel for LCD impact protection
- Preinstalled replaceable screen film for LCD protection

CPU

- Intel® Core™ m5-6Y57 vPro™ Processor
- ~1.1GHz with Turbo Boost up to 2.8GHz, 4MB Cache

STORAGE & MEMORY

- Factory installed 8GB or 16GB SDRAM [DDR3L - 1600MT/s]³
- 128GB SSD with heater⁴
- Optional 256/512GB SSD with heaters³
- Optional OPAL encrypted SSD with heater

DISPLAY

- 10.1" WUXGA 1920 x 1200
- ~10-point capacitive gloved multi touch
- ~10-point capacitive gloved multi touch + digitizer
- 2-800 nit
- IPS display with direct bonding
- Anti-reflective [AR] and anti-glare [AG] screen treatments
- Intel HD Graphics 515
- 4 monitor support
- Concealed mode [configurable]

AUDIO

- Integrated dual array microphone
- Intel® High Definition Audio compliant
- Integrated speaker
- On-screen and button volume and mute controls

CAMERAS

- 1080p webcam with dual array mic and camera on/off indicator
- Optional 8MP rear camera with autofocus and triple LED flash

KEYBOARD & INPUT

- Waterproof IP55 stylus pen with integrated stylus holder, tether and cleaning cloth
- Supports glove mode and rain mode
- 7 tablet buttons [5 user-definable A1/A2 buttons]
- On-screen QWERTY keyboard
- 82-key with dedicated Windows® key
- Emissive backlit keyboard with 4 adjustable levels
- Pressure-sensitive touchpad with multi touch

INTERFACE & EXPANSION

- On the tablet:
 - Docking Connector 25-pin
 - USB 3.0 x1 [optional 2nd USB 2.0^{4,5}] Type A [USB 3.0 is 1.5A]
 - MicroSDXC UHS-I
 - HDMI Type A
 - 10/100/1000 Ethernet RJ-45
 - Optional Serial [True]^{6,5} D-sub 9-pin
 - Audio In/Out 3.5mm Mini-jack stereo
 - Micro-SIM 3FF
- On the keyboard:
 - Docking Connector 25-pin
 - USB 3.0 x2, USB 2.0 x1 Type A
 - SDXC UHS-II
 - HDMI Type A
 - VGA D-sub 15-pin
 - 10/100/1000 Ethernet RJ-45
 - Serial [USB] D-sub 9-pin

WIRELESS

- Optional 4G LTE multi carrier mobile broadband with satellite GPS⁴
- Optional dedicated GPS [u-blox NEO M8N]⁴
- Dual high-gain antenna pass-through
- Intel® Dual Band Wireless-AC 8260 Wi-Fi 802.11a/b/g/n/ac
- Bluetooth® v4.1 [Class 1] + EDR⁷

POWER

- Li-Ion battery pack:
 - Standard in tablet; optional 2nd battery in keyboard
 - 11.4V, 2600mAh [each battery]
- Battery operation: 10 hours [20 hours with opt. 2nd battery]⁸
- Battery charging time: 3 hours [3.5 hours with opt. 2nd battery]⁸
- Optional bridge battery: 1 minute hot swap time
- AC Adapter: AC 100V-240V 50/60Hz, auto sensing/switching worldwide power supply

SECURITY FEATURES

- TPM v1.2 [TPM v2.0 available]¹
- NIST BIOS compliant
- Persistence® technology by Absolute embedded in BIOS⁹
- Kensington cable lock slots x2 [on tablet and keyboard]
- Optional fingerprint reader¹⁰
- Optional insertable SmartCard CAC reader¹⁰
- Optional contactless SmartCard CAC reader¹⁰
 - 13.56MHz [ISO 15693 & 14443 A/B compliant]

WARRANTY

- 3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT

- 10.7" [L] x 9.2" [W] x 1.3" [H]¹¹
- 3.9 lbs.¹²

HAZARDOUS LOCATION CERTIFICATIONS

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

INTEGRATED OPTIONS¹³

- Choice of dedicated GPS [u-blox NEO-M8N] 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 port
- Choice on tablet of insertable SmartCard CAC, contactless SmartCard CAC or fingerprint reader
- 8MP rear camera
- Bridge battery

SELECT ACCESSORIES¹³

- AC Adapter 65W [3-prong] CF-AA6413CM
- Battery Pack CF-VZ5U0QW
- 4-Bay Battery Charger CF-VCB201M
- LIND Car Charger 120W CF-LNDDC120
- LIND Solar Charge System PASC1580-4464
- ToughMate ComUniversal Jr. Carrying Case TBCCOMUJR-P
- ToughMate Backpack TBCBPK-P
- ToughMate Mobility Bundle [Carry Strap] TBC20MBBDL-P
- ToughMate Always-on Case TBC20AOCSP-P
- ToughMate Rotating Hand & Shoulder Strap TBC20HDSTP-P
- Rotating Hand Strap CF-VST2011U
- Desktop Dock CF-VEB201U
- Laptop 2-in-1 Vehicle Docks [requires keyboard]
 - Gamber-Johnson [no RF] GJ-20-LVD0
 - Gamber-Johnson [dual RF] GJ-20-LVD2
- Tablet Extended Vehicle Docks
 - Gamber-Johnson [no RF] GJ-A2-TV00-X
 - Gamber-Johnson [dual RF] GJ-A2-TV02-X
- AntennaPlus Dual LTE & GPS Antenna Kit
 - Threaded Black Mount AP-PAN-CCGPD-Q-BL
 - Threaded White Mount AP-PAN-CCGPD-Q-WH
- Cradlepoint Router
 - Verizon LTE CP-IBR1100LPE-VZ
 - Multi Carrier LTE-Advanced CP-IBR1100LP6-NA
 - Multi Carrier LTE-Advanced [compact size] CP-IBR900LP6-NA
- Multi Touch IP55 Stylus CF-VNP022U
- Multi Touch + Digitizer IP55 Stylus CF-VNP023U
- Tether CF-VNT002U
- Spare Keyboard CF-VEK201LMP
- 10.1" LCD Protector Film CF-VFP31U

Please consult your reseller or Panasonic representative before purchasing.

¹ TPM 1.2 ships by default, but can run TPM 2.0 – see below Microsoft link for details: support.microsoft.com/en-us/help/2920188/update-to-add-support-for-tpm-2.0-in-windows-7-and-windows-server-2008-r2.

² 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 and 14.3 for IP65.

³ 1GB = 1,000,000,000 bytes. 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, 2nd USB or Barcode-Insertable SmartCard integrated options increase overall height and prohibit use in convertible mode.

⁶ Dedicated GPS and 4G LTE are mutually exclusive.

⁷ Bluetooth 4.0 [Class 1] + EDR for Windows 7 Professional.

⁸ 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 at 60 nit.

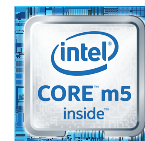
⁹ Requires software and activation to enable theft protection.

¹⁰ Insertable SmartCard, Contactless SmartCard/NFC and Fingerprint Readers are mutually exclusive.

¹¹ Includes tablet and keyboard with handle. Tablet when detached is 10.7" [L] x 7.7" [W] x 0.4" [H]. Serial, 2nd USB or Barcode-Insertable SmartCard integrated options increase overall height and prohibit use in convertible mode.

¹² Includes tablet and keyboard with handle. Tablet when detached is 2.1 lbs. Optional 2nd battery weighs 0.4 lbs.

¹³ Accessories and Integrated Options may vary depending on your configuration. Visit the Panasonic website for more accessories and details.



1.800.662.3537

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