



## 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
- Shock-mounted Flex-connect Hard Drive with Quick-release
- Optional 4G LTE Multi Carrier Mobile Broadband with Satellite GPS

**IP65**

**6-FOOT  
DROP RATING**

**MIL-STD-  
810G**

*The first  
MIL-STD-810G  
certified tablet PC<sup>1</sup>*

## RUGGED, LIGHTWEIGHT, WIRELESS AND CONVERTIBLE.

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 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.

# TOUGHBOOK 19

Panasonic recommends Windows 10 Pro.

## SOFTWARE

- Windows 8.1 Pro 64-bit
- Panasonic Utilities, Panasonic Dashboard, Recovery Partition

## DURABILITY

- MIL-STD-810G certified (6' drop, shock, vibration, rain, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, humidity, explosive atmosphere)<sup>1</sup>
- MIL-STD-461F certified<sup>1</sup>
- IP65 certified sealed all-weather design<sup>1</sup>
- Optional class I division 2, groups ABCD certified model
- Hard drive heater
- Full magnesium alloy case with hand strap
- Shock-mounted flex-connect hard drive with quick-release
- Pre-installed replaceable screen film for LCD protection

## CPU<sup>2</sup>

- Intel® Core™ i5-3610ME vPro™ Processor
  - 2.7GHz with Turbo Boost up to 3.3GHz
  - 3MB cache

## STORAGE & MEMORY

- 4GB or 8GB SDRAM [DDR3L-1333MHz]<sup>2,3</sup>
- Shock-mounted flex-connect hard drive with quick-release
  - 500GB 7200rpm hard drive with heater<sup>3</sup>
  - Optional 128GB and 256GB solid state drives (SSD) with heaters<sup>3</sup>

## DISPLAY

- 10.1" XGA sunlight-viewable LED 1024 x 768
  - Resistive touchscreen
  - 5-point resistive multi touch + digitizer
- TransflectivePlus and Panasonic CircuLumin™ technology
- 1-6000 nit (depending on lighting conditions and settings)<sup>4</sup>
- AR, AG and circular polarizer
- Ambient light sensor
- Intel® QM77 video controller, max. 1545MB shared VRAM with 32-bit<sup>2</sup>
- External video support up to 1280 x 1024 at 16.7 million colors
- Concealed mode (configurable)

## AUDIO

- Intel® high-definition audio compliant
- Integrated speaker
- Keyboard volume and mute controls

## KEYBOARD & INPUT

- Touchscreen or multi touch + digitizer
- Integrated stylus holder
- 82-key with dedicated Windows® key
- Pressure-sensitive touchpad with vertical scrolling support

## EXPANSION SLOTS

- PC card type II
- SD card (SDXC)
- ExpressCard/54

## INTERFACE

- |                                |                   |
|--------------------------------|-------------------|
| ■ Docking connector            | Dedicated 100-pin |
| ■ VGA                          | D-sub 15-pin      |
| ■ Headphones/speaker           | Mini-jack stereo  |
| ■ Microphone/line in           | Mini-jack stereo  |
| ■ Serial                       | D-sub 9-pin       |
| ■ Ext. antenna conn. (x 2)     | 50 ohm coaxial    |
| ■ USB 3.0 (x 1), USB 2.0 (x 1) | 4-pin             |
| ■ IEEE 1394a (FireWire)        | 4-pin             |
| ■ 10/100/1000 Ethernet         | RJ-45             |

## WIRELESS

- Optional integrated 4G LTE multi carrier mobile broadband with satellite GPS
- Optional GPS (u-blox NEO-M8N)
- Intel® Centrino® Advanced-N 6235 802.11a/b/g/n
- Bluetooth® v4.0 + EDR (Class 1)
- Security
  - Authentication: LEAP, WPA, 802.1x, EAP-TLS, EAP-FAST, PEAP
  - Encryption: CKIP, TKIP, 128-bit and 64-bit WEP, Hardware AES
- Dual high-gain antenna pass-through
- Slide on/off switch

## POWER SUPPLY

- Lithium ion battery pack (10.65V, typical 5700mAh, minimum 5400mAh)
- Battery operation: 10 hours (touchscreen), 9.5 hours (multi touch + digitizer)<sup>5</sup>
- Battery charging time: 3.5 hours<sup>5</sup>
- AC Adapter: AC 100V-240V 50/60Hz, auto sensing/switching worldwide power supply

## POWER MANAGEMENT

- Suspend/Resume Function, Hibernation, Standby, ACPI BIOS

## SECURITY FEATURES

- Password Security: Supervisor, User, Hard Disk Lock
- Kensington cable lock slot
- Trusted platform module (TPM) security chip v.1.2
- Computrace® theft protection agent in BIOS<sup>4</sup>
- Intel® Anti-Theft Technology
- Optional fingerprint reader
- Optional insertable SmartCard reader

## WARRANTY

- 3-year limited warranty, parts and labor

## DIMENSIONS & WEIGHT

- 8.5"(L) x 10.7"(W) x 1.9"(H)
- 5.1 lbs.

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

- 4G LTE multi carrier mobile broadband with satellite GPS
- GPS (u-blox NEO-M8N)
- Emissive backlit keyboard
- Insertable SmartCard reader
- Fingerprint reader
- HDD and battery lock
- 128GB and 256GB solid state drives (SSD) with heaters

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

- |   |              |
|---|--------------|
| ■ AC Adapter (3-prong)                          | CF-AA6503A2M |
| ■ Battery Pack                                  | CF-VZSU48U   |
| ■ Battery Charger                               | CF-VCBTB2W   |
| ■ LIND Car Adapter 120W                         | CF-LNDDC120  |
| ■ LIND Car/AC Adapter 90W (with USB port)       | CF-LNDACDC90 |
| ■ LIND Car Adapter 90W MIL-STD                  | CF-LNDMLDC90 |
| ■ Carrying Case                                 | CL55         |
| ■ ToughMate 19 "X" Hand Strap                   | CF19X5       |
| ■ Memory Card 4GB DDR3                          | CF-WMBA1304G |
| ■ Desktop Dock                                  | CF-VSB191AU  |
| ■ Panasonic Vehicle Dock (dual pass-through)    | CF-WEB194AC  |
| ■ PDRC Backlit Keyboard                         | CF-VKBL03AM  |
| ■ Dual Touch Replacement Stylus (for Digitizer) | CF-VNP012U   |
| ■ Touchscreen Replacement Stylus                | CF-VNP003U   |
| ■ Tether  | CF-VNT002U   |
| ■ LCD Protector Film                            | CF-VPF11U    |

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 and 14.3 for IP65.

<sup>2</sup>Total usable memory will be less depending upon actual system configuration. Maximum of 4GB of memory when equipped with camera. Windows 7 64-bit max. VRAM is 1696MB.

<sup>3</sup>1GB = 1,000,000,000 bytes.

<sup>4</sup>1000 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.



# TOUGHBOOK

1.866.413.3099  
business.panasonic.ca

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