



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**

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 certified¹ for MIL-STD-810G and IP65, it features a full magnesium alloy case capable of withstanding a 6-foot drop¹—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

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]¹
- MIL-STD-461F certified¹
- IP65 certified sealed all-weather design¹
- 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

CPU²

- 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]^{2,3}
- Shock-mounted flex-connect hard drive with quick-release
- 500GB 7200rpm hard drive with heater³
- Optional 128GB and 256GB solid state drives (SSD) with heaters³

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)⁴
- AR, AG and circular polarizer
- Ambient light sensor
- Intel® QM77 video controller, max. 1545MB shared VRAM with 32-bit²
- 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
- VGA
- Headphones/speaker
- Microphone/line in
- Serial
- Ext. antenna conn. (x 2)
- USB 3.0 (x 1), USB 2.0 (x 1)
- IEEE 1394a (FireWire)
- 10/100/1000 Ethernet
- Dedicated 100-pin
- D-sub 15-pin
- Mini-jack stereo
- Mini-jack stereo
- D-sub 9-pin
- 50 ohm coaxial
- 4-pin
- 4-pin
- 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)⁵
- Battery charging time: 3.5 hours⁵
- 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 BIOS⁴
- 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 OPTIONS⁷

- 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 ACCESSORIES⁷

- 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-VEB191AU
- 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.

¹Tested 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.

²Total 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.

³1GB = 1,000,000,000 bytes.

⁴1000 nit without ambient light assistance. Up to 6000 nit in clear, sunny conditions under direct sunlight.

⁵Battery 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.

⁶Requires software and activation to enable theft protection.

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



TOUGHBOOK

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