Panasonic

Panasonic recommends Windows 8.

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

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[1] for MIL-STD-810G and IP65, it features a full magnesium alloy case capable of withstanding a 6-foot drop[1]—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.

IP65

6-FOOT DROP RATING

MIL-STD-810G

The first MIL-STD-810G certified tablet PC[1]

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TOUGHBOOK®

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 certified[1]
- IP65 certified sealed all-weather design[1]
- 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

SOFTWARE
- Windows® 8 Pro 64-bit (with Windows® 7 downgrade option)
- Panasonic Utilities, Panasonic Dashboard, Recovery Partition

CPU[2]
- Intel® Core™ i5-3340M vPro™ Processor
  – 2.7GHz with Turbo Boost up to 3.4GHz
  – Intel® Smart Cache 3MB

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

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)[5]
- AR, AG and circular polarizer
- Ambient light sensor
- Intel® QM77 video controller, max. 1545MB shared VRAM with 32-bit[3]
- 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
56K Modem	RJ-11

WIRELESS
- Optional integrated 4G LTE multi carrier mobile broadband with satellite GPS
- Optional GPS (SiRFstarIII™)
- 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)[6]
- Battery charging time: 3.5 hours[6]
- 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[7]
- 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[8]
- 4G LTE multi carrier mobile broadband with satellite GPS
- GPS (SiRFstarIII™)
- 3MP camera with auto focus and dual LED light[9]
- Backlit keyboard – sealed rubber or plastic emissive
- Insertable SmartCard reader
- Fingerprint reader
- HDD and battery lock
- 128GB and 256GB solid state drives (SSD) with heaters

SELECT ACCESSORIES[8]

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
ToughMate ComUniversal Jr. Carrying Case	TBCCOMUJR-P
ToughMate Always-on 19 Case	TBC19AOCS-P
ToughMate 19 "X" Hand Strap	TBC19XSTP-P
ToughMate Shoulder Strap	TBCTMSS-P
Memory Card 4GB DDR3	CF-WMBA1204G
Desktop Dock	CF-VEB191AU
Vehicle Docks (no pass-through)	
- Gamber-Johnson with LIND power supply	7160-0264-03-P
- Havis with LIND power supply	CF-H-PAN-212-P
Vehicle Docks (dual pass-through)	
- Panasonic	CF-WEB194AC
- Gamber-Johnson with LIND power supply	7160-0264-04-P
- Havis with LIND power supply	CF-H-PAN-212-2-P
Zebra 4" Bluetooth Printer	PZ420BT
Zebra 4" Bluetooth Printer with MagStripe Reader	PZ420BTMC
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.

[1]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.

[2]An Intel Core i7 processor is also available.

[3]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.

[4]1GB = 1,000,000,000 bytes.

[5]1000 nit without ambient light assistance. Up to 6000 nit in clear, sunny conditions under direct sunlight.

[6]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.

[7]Requires software and activation to enable theft protection.

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

[9]Camera replaces the second memory slot located on the bottom of the PC.

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