Panasonic recommends Windows® 7.

THE TOUGHBOOK
19

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 those 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 (Fall 2011) or Gobi™2000 3G mobile broadband.

- Convertible Notebook to Tablet Design

- 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

- Choice of 3G Gobi™ or 4G LTE Mobile Broadband

IP65

6-FOOT DROP RATING

MIL-STD-810G

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

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SOLUTIONS	**IS OUR MIDDLE NAME**

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]
- UL1604 class I division 2, groups ABCD certified model
- CCX Certified v4
- 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
- Genuine Windows® 7 Professional 32-bit[2] or Genuine Windows® 7 Professional 64-bit[2]
- Panasonic Utilities, Panasonic Dashboard, Recovery Partition

CPU[3]
- Intel® Core™ i5-2520M vPro™ Processor
  – 2.5GHz with Turbo Boost up to 3.2GHz
  – Intel® Smart Cache 3MB

STORAGE & MEMORY
- 4GB SDRAM (DDR3-1333MHz) standard, expandable to 8GB[4,5]
- 320GB 7200rpm hard drive (shock-mounted flex-connect with quick-release)[5]
  – Optional 128GB and 256GB reinforced flex-connect solid state drives (SSD)[5]

DISPLAY
- 10.1" XGA sunlight-viewable LED 1024 x 768 (touchscreen or optional dual touch)
  – TransflectivePlus and Panasonic CircuLumin™ technology
  – 1-6000 nit (depending on lighting conditions and settings)[6]
  – AR, AG and circular polarizer
- Intel® QM67 video controller, max. 1557MB shared VRAM with 32-bit[4]
- External video support up to 1280 x 1024 at 16.7 million colors
- Concealed mode

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

KEYBOARD & INPUT
- Touchscreen or dual touch (touchscreen and digitizer models)
- Integrated stylus holder
- 82-key with dedicated Windows® key
- Pressure-sensitive touchpad with vertical scrolling support

EXPANSION SLOTS
- PC card type II x 1
- SD card (SDXC)
- ExpressCard/54 x 1

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 2.0 (x 2) — 4-pin
- IEEE 1394a (FireWire) — 4-pin
- 10/100/1000 Ethernet — RJ-45
- 56K Modem — RJ-11

WIRELESS
- Optional integrated LTE 4G mobile broadband (Fall 2011)
- Optional integrated Gobi™2000 3G mobile broadband
- Intel® Centrino® Advanced-N 6205 802.11a/b/g/n
- Bluetooth® v2.1 + 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 (11.1V, typical 5600mAh, minimum 5300mAh)
- Battery operation: 9 hours (touchscreen), 8.5 hours (dual touch)[7]
- Battery charging time: 3.5 hours[7]
- 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[8]
- Intel® Anti-Theft Technology
- Optional fingerprint reader
- Optional 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[9]
- LTE 4G mobile broadband (available Fall 2011)
- Gobi™2000 3G mobile broadband (EV-DO Rev. A, HSPA)
- 2.0MP camera with auto focus and dual LED light[10]
- GPS receiver
- Backlit keyboard – sealed rubber or plastic emissive
- SmartCard reader
- Fingerprint reader
- HDD and battery lock

ACCESSORIES[9]
AC Adapter (3-prong)	CF-AA6503A2M
AC Adapter MIL-461F (3-prong)	CF-AA5713AM
Lithium Ion Battery Pack[11]	CF-VZSU48U
Battery Charger	CF-VCBTB2W
LIND 5-Bay Battery Charger	PACH518-1858-P
LIND Car Adapter 120W	CF-LNDDC120
LIND Car Adapter 120W Mounting Bracket	CF-LNDBRK120
LIND Car/AC Adapter 90W (with USB port)	CF-LNDACDC90
LIND Car Adapter 90W MIL-STD	CF-LNDMLDC90
LIND Car Adapter 80W	CF-LNDDC80
LIND Shutdown Timer	CF-LNDLPT
InfoCase ComUniversal Jr. Carrying Case	TBCCOMUJR-P
InfoCase Backpack	TBCBPK-P
InfoCase Always-on 19 Case	TBC19AOCS-P
InfoCase 19 "X" Hand Strap	TBC19XSTP-P
InfoCase Shoulder Strap	TBCTMSS-P
External USB Combo Drive (DVD-ROM/CD-RW)	CF-VDRRT3U
Memory Cards – 4GB DDR3	CF-WMBA1004G
Desktop Dock	CF-VEB191AU
Vehicle Dock – No pass-through	See Dealer
– Dual pass-through	CF-WEB194AC
Dual Touch Replacement Stylus (for Digitizer)	CF-VNP012U
Touchscreen Replacement Stylus	CF-VNP003U
Tether	CF-VNT002U
10.4" LCD Protector Film for Touchscreen and Dual Touch	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]A full set of Windows XP drivers are available at panasonic.com/toughbook/support.

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

[4]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 with 4GB of memory.

[5]1GB = 1,000,000,000 bytes.

[6]1000 nit without ambient light assistance. Up to 6000 nit in clear, sunny conditions under direct sunlight.

[7]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.

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

[9]Accessories and Integrated Options may vary depending on your notebook configuration.

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

[11]10.65V, 5700mAh.

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Financing options now available from Panasonic Finance Solutions; please call number above for more details.

TOUGHBOOK®

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