THE TOUGHBOOK **19**

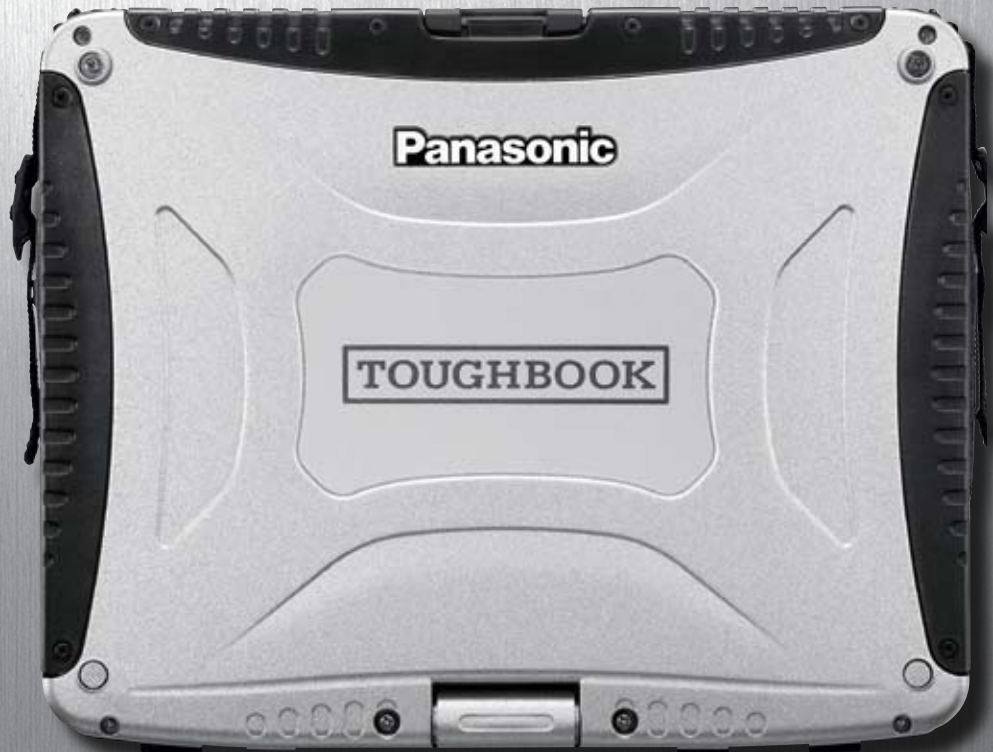**Rugged, lightweight, wireless and convertible.**

In your world, performance is everything. 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 sunlight-viewable display with Panasonic CircuLumin™ technology and optional embedded Gobi™ mobile broadband.

IP65

6-FOOT DROP RATING

MIL-STD- 810G

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

Panasonic ideas for life

Windows®. Life without Walls™. Panasonic recommends Windows.

THE PANASONIC TOUGHBOOK 19.

DURABILITY FEATURES	• 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 • HDD heater • Full magnesium alloy case with hand strap • Shock-mounted, quick-release hard drive • Pre-installed replaceable screen film for LCD protection
SOFTWARE	• Genuine Windows Vista® Business (with XP downgrade option) • Setup, Diagnostics, DMI Viewer, PC Information Viewer, Online Reference Manual, Adobe® Reader, Panasonic Handwriting (with signature capture on Tablet PC), Zoom Utility, Concealed Mode Utility, Software Keyboard, Display Rotation Tool, Hard Disk Data Erase Utility, Recovery DVD
CPU	• Intel® Core™ 2 Duo Processor SU9300 – Intel® Centrino® 2 with vPro™ technology – Processor speed 1.2GHz – 3MB L2 cache – 800MHz FSB
STORAGE & MEMORY	• 2048MB SDRAM (DDR2-667MHz) standard, expandable to 4096MB[2] • 160GB HDD (shock-mounted and quick-release)[3]
DISPLAY	• 10.4" 1024 x 768 XGA sunlight-viewable touchscreen or optional dual touch LCD – With Panasonic CircuLumin™ technology: 4-1000 nit, AR, AG, circular polarizer • External video support up to 1280 x 1024 at 16.7 million colors • Intel® GS45 (GMA 4500MHD video controller) max. 1024MB UMA VRAM on XP[2] • Concealed mode
AUDIO	• Analog Devices AD1883 compliant audio codec • Intel® high-definition audio compliant • Integrated speaker • Convenient 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 (SDHC) • ExpressCard/54 x 1

INTERFACE		
	• Port replicator	Dedicated 100-pin
	• External video	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 Gobi™ mobile broadband • Intel® Wireless WiFi Link 5100 802.11a/b/g/draft-n • Bluetooth® v2.0 + 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, 5700mAh) • Battery operation: approximately 9 hours (Vista), 10 hours (XP)[4] • Battery charging time: 4.5 hours off, 6.5 hours on[4] • 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[5] • 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[6]	• Gobi™ mobile broadband (EV-DO Rev. A, HSPA) • 2.0MP camera with auto focus and dual LED light • Global positioning system (GPS) receiver • Backlit keyboard • SmartCard reader • Fingerprint reader • HDD and battery lock

1.800.662.3537 / panasonic.com/toughbook/19

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

Panasonic *ideas for life*

ss19   10/09

- *Convertible Notebook to Tablet Design*
- *The First MIL-STD-810G Certified Tablet PC[1]*
- *6-foot Drop and IP65 Certified[1]*
- *Sunlight-viewable Display with Panasonic CircuLumin™ Technology*
- *Full Magnesium Alloy Case with Hand Strap*
- *Shock-mounted, Quick-release Hard Drive*
- *Mobile Broadband and GPS-ready Design*

ACCESSORIES[6]

• AC Adapter (3-pin)	CF-AA1633AM
• Battery Charger	CF-VCBTB1W
• Dual Touch Replacement Stylus (for Digitizer)	CF-VNP012U
• Touchscreen Replacement Stylus	CF-VNP003U
• InfoCase ComUniversal Jr. Carrying Case	COMUNIVJR-P
• InfoCase Backpack	TM-UNIVBPK-P
• InfoCase Always-on 19 Case	FM19-P
• InfoCase 19 "X" Hand Strap	FM19X-P
• External USB Combo Drive (DVD-ROM/CD-RW)	CF-VDRRT3U
• External USB Floppy Drive	CF-VFDU03U
• Lithium Ion Battery Pack	CF-VZSU48U
• 32GB Solid State Drive (SSD)	CF-WSD190321
• Memory Cards	
– 1GB	CF-WMBA801G
– 2GB	CF-WMBA802G
• Desktop Port Replicator	CF-VEB181AU
• Vehicle Port Replicator (dual pass-through)	CF-WEB184AC
• 10.4" LCD Protector Film for Touchscreen & 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] Total usable memory will be less depending upon actual system configuration. Vista max. VRAM is 797MB with 2GB of memory, or 1551MB with 4GB of memory.

[3] 1GB = 1,000,000,000 bytes

[4] 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.

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

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