

Panasonic recommends Windows Vista® Business.



**POWERFUL, RUGGED  
AND WIRELESS.  
NOW THERE'S  
A NICE TRIFECTA.**

**Panasonic ideas for life**

**The Panasonic Toughbook 19.**

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. It features a full magnesium alloy case with a hand strap—ideal for working in those challenging environments and mission-critical situations. At only five pounds, it's good on the go with embedded Gobi™ 3G global mobile Internet (WWAN) and GPS capabilities, Wi-Fi and a daylight-readable display.



**TOUGHBOOK®**

**THE RUGGED ORIGINAL.**

# The Panasonic Toughbook 19.

Rugged, Lightweight, Wireless and Convertible

Panasonic recommends Windows Vista® Business.

## DURABILITY FEATURES

- MIL-STD-810F- and IP54-compliant
- 3-foot drop approved
- Full magnesium alloy case with hand strap
- Shock-mounted quick-release hard drive
- Sealed all-weather design
- Rain-, spill-, dust- and vibration-resistant
- Pre-installed replaceable screen film for touchscreen protection

## SOFTWARE

- Genuine Windows Vista® Business (with XP downgrade option)
- Setup, Diagnostics, DMI Viewer, Online Reference Manual, Adobe® Reader, Panasonic Handwriting (with signature capture on Tablet PC version), Software Keyboard, Display Rotation Tool, Hard Disk Data Erase Utility, Recovery DVD

## CPU

- Intel® Core™ 2 Duo Processor U7500
  - 2MB L2 cache
  - Processor speed 1.06GHz
  - 533MHz FSB

## STORAGE & MEMORY

- 1024MB SDRAM (DDR2) standard, expandable to 4096MB<sup>1</sup>
- 80GB hard drive (shock-mounted and quick-release)<sup>2</sup>

## DISPLAY

- Touchscreen PC version: 10.4" 1024 x 768 XGA transmissive, 500 nit daylight-readable TFT active matrix color LCD
- Tablet PC version: 10.4" 1024 x 768 XGA transmissive, 550 nit daylight-readable TFT active matrix color LCD with Digitizer
- External video support up to 1280 x 1024 at 16 million colors
- Intel® GM965 (GMA X3100 video controller) max. 384MB UMA VRAM on XP<sup>3</sup>
- Anti-glare, anti-reflective screen treatments

## AUDIO

- SigmaTel™ STAC9751 AC-97 v.2.2 compliant audio codec
- Intel® high definition audio compliant
- Integrated speaker
- Convenient keyboard volume and mute controls

## EXPANSION SLOTS

- PC card type II x 1
- SD card (SDHC)
- ExpressCard/54 x 1

## KEYBOARD & INPUT

- 82-key with dedicated Windows® key
- Pressure-sensitive touchpad with vertical scrolling support
- Active digitizer or touchscreen LCD
- Integrated stylus holder

## INTERFACE

- External video D-sub 15-pin
- Headphones/speaker Mini-jack stereo
- Microphone/line in Mini-jack
- Port replicator Dedicated 100-pin
- 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™ 3G global mobile Internet (WWAN)
- Intel® Wireless WiFi Link 4965AG 802.11a/b/g
- 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
- Slide on/off switch

## POWER SUPPLY

- Lithium ion battery pack (10.65V, 5700mAh)
- Battery operation: 7 hours<sup>3</sup>
- Battery charging time: 4.5 hours off, 7.5 hours on<sup>3</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
- Cable lock slot
- Trusted platform module (TPM) security chip v.1.2
- Computrace® theft protection agent in BIOS<sup>4</sup>
- Fingerprint scanner (option)
- SmartCard reader (option)

## 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>5</sup>

- Global Mobile Broadband Internet
  - Gobi™ Technology (EV-DO Rev. A, HSPA)
- 2.0MP camera with dual LED light
- 120GB hard drive
- Global positioning system (GPS) receiver
- Backlit keyboard
- SmartCard reader
- Fingerprint scanner
- UL 1604 Class I, Division 2, Groups, A, B, C, D certified model



- Notebook PC Convertible to Tablet PC
- Daylight-readable Display
- Full Magnesium Alloy Case with Hand Strap
- Shock-mounted, Quick-release Hard Drive
- Sealed All-weather Design
- Mobile Broadband- and GPS-ready Design

## ACCESSORIES<sup>5</sup>

- AC Adapter (3-pin) CF-AA1633AM
- Battery Charger CF-VCBTB1W
- CF-19 Tablet Large Stylus Pen (for Digitizer) CF-VNP011U
- CF-19 Tablet Stylus (for Digitizer) CF-VNP010U
- Touchscreen Replacement Stylus CF-VNP003U
- ToughMate ComUniversal Carrying Case (large capacity) 7540-P
- ToughMate ComUniversal Jr. Carrying Case COMUNIVJR-P
- ToughMate Always-on 19 Case FM19-P
- ToughMate 19 "X" Hand Strap FM19X-P
- Desktop Port Replicator CF-VEB181AU
- External USB Combo Drive (DVD-ROM/CD-RW) CF-VDRRT3U
- External USB Floppy Drive CF-VFDU03U
- Lithium Ion Battery Pack CF-VZSU48U
- Memory Cards
  - 1GB CF-WMBA601G
  - 2GB CF-WRBA602G
- Vehicle Port Replicator CF-WEB184AC
- 10.4" LCD Protector Film for Tablets CF-VPF06U
- 10.4" LCD Protector Film for Touchscreen CF-VPF08U

<sup>1</sup>Total usable memory will be less depending upon actual system configuration. Vista max. VRAM is 251MB with 1GB of memory, or 358MB with 1.5GB or more of memory.

<sup>2</sup>1GB = 1,000,000,000 bytes

<sup>3</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>4</sup>Requires software and activation to enable theft protection.

<sup>5</sup>Accessories and Integrated Options may vary depending on your notebook configuration.

Please consult your reseller or Panasonic representative before purchasing.

For more information call **1.800.662.3537** or visit us on the Web at [panasonic.com/toughbook](http://panasonic.com/toughbook).

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