

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 sunlight-viewable 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
- HDD heater
- 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 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<sup>1</sup>
- 160GB HDD (shock-mounted and quick-release)<sup>2</sup>

## DISPLAY

- 10.4" 1024 X 768 XGA sunlight-viewable touchscreen or optional dual touch LCD
  - 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<sup>1</sup>
- Concealed mode

## AUDIO

- Analog Devices AD1883 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

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

## INTERFACE

- Port replicator
- External video
- Headphones/speaker
- Microphone/line in
- Serial
- Ext. antenna conn. (x 2)
- USB 2.0 (x 2)
- IEEE 1394a (FireWire)
- 10/100/1000 Ethernet
- 56K Modem
- 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
- RJ-11

## WIRELESS

- Optional integrated Gobi™ 3G global mobile Internet (WWAN)
- 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)<sup>3</sup>
- Battery charging time: 4.5 hours off, 6.5 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
- Kensington cable lock slot
- Trusted platform module (TPM) security chip v.1.2
- Computrace® theft protection agent in BIOS<sup>4</sup>
- Optional fingerprint reader
- Optional SmartCard reader

## WARRANTY

## DIMENSIONS & WEIGHT

- 3-year limited warranty, parts and labor
- 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 auto focus and dual LED light
- 32GB SSD
- Global positioning system (GPS) receiver
- Backlit keyboard
- SmartCard reader
- Fingerprint reader
- HDD and battery lock
- UL 1604 Class I, Division 2, Groups, A, B, C, D certified model



- Convertible Notebook to Tablet Design
- 1000 Nit Sunlight-viewable Display
- Full Magnesium Alloy Case with Hand Strap
- Shock-mounted, Quick-release Hard Drive
- Sealed All-weather Design
- Intel® Centrino® 2 with vPro™ Technology
- 3G Mobile Broadband- and GPS-ready Design

## ACCESSORIES<sup>6</sup>

- AC Adapter (3-pin) CF-AA1633AM
- Battery Charger CF-VCBTB1W
- Dual Touch Replacement Stylus (for Digitizer) CF-VNP012U
- Touchscreen Replacement Stylus CF-VNP003U
- ToughMate ComUniversal Carrying Case (large capacity) 7540-P
- ToughMate ComUniversal Jr. Carrying Case COMUNIVJR-P
- ToughMate ComUniversal Roller TM-UNIVRLR-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-VFUDU03U
- Lithium Ion Battery Pack CF-VZSU48U
- Memory Cards
  - 1GB CF-WMBA801G
  - 2GB CF-WMBA802G
- Vehicle Port Replicator CF-WEB184AC
- 10.4" LCD Protector Film for Touchscreen & Dual Touch CF-VPF11U

<sup>1</sup>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.

<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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