

Panasonic recommends Windows Vista® Business.



**YOU CAN KEEP  
TELLING YOURSELF  
“IT’S JUST LIKE  
A TOUGHBOOK.”  
OR YOU CAN GO FOR  
THE REAL THING.**

**Panasonic** ideas for life

**The Panasonic Toughbook 52.**

The only full-power desktop replacement laptop PC with Toughbook® durability, reliability and performance. With a 15.4" widescreen LCD for group presentations and advanced technology to run multiple applications without a hitch, it's the ultimate business tool. And embedded Gobi™ 3G global mobile Internet (WWAN) lets you work seamlessly pretty much anywhere.



**TOUGHBOOK®**

**THE RUGGED ORIGINAL.**

# The Panasonic Toughbook 52.

## Reliable, Semi-rugged Desktop Alternative

### Panasonic recommends Windows Vista® Business.

#### SOFTWARE

- Genuine Windows Vista® Business (with XP downgrade option)
- Setup, Diagnostics, PC Information Viewer, Online Reference Manual, Adobe® Reader, Hard Disk Data Erase Utility, Recovery DVD, WinDVD®, B's Recorder GOLD9 BASIC, B's CLIP7

#### CPU

- Intel® Core™ 2 Duo Processor P8600
  - 3MB L2 cache
  - Processor speed 2.4GHz
  - 1066MHz FSB
- Intel® Core™ 2 Duo Processor P8400
  - 3MB L2 cache
  - Processor speed 2.26GHz
  - 1066MHz FSB

#### STORAGE & MEMORY

- 1024MB SDRAM (DDR2) standard, expandable to 4096MB<sup>1</sup>
- 160GB hard drive (shock-mounted and quick-release)<sup>2</sup>

#### DISPLAY

- Intel® Core™ 2 Duo Processor P8600
  - 15.4" widescreen 1920 x 1200 WUXGA TFT active matrix color LCD
  - ATI Radeon™ HD 3650, 512MB dedicated VRAM
- Intel® Core™ 2 Duo Processor P8400
  - 15.4" widescreen 1280 x 800 WXGA TFT active matrix color LCD
  - Intel® GM45 (GMA 4500MHD video controller), max. 285MB UMA VRAM on Vista<sup>3</sup>
- Anti-glare, anti-reflective screen treatments

#### AUDIO

- Analog Devices AD1883 compliant audio codec
- Intel® high-definition audio compliant
- Integrated stereo speakers
- Convenient keyboard volume and mute controls

#### EXPANSION SLOTS

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

#### MULTIMEDIA POCKET

- DVD Super MULTI Drive with Dual Layer Support

#### KEYBOARD & INPUT

- 87-key with dedicated Windows® key
- Electrostatic touchpad with scrolling support

#### INTERFACE

- External video D-sub 15-pin
- Headphones/speaker Mini-jack stereo
- Microphone/line in Mini-jack stereo
- Port replicator Dedicated 100-pin
- Serial D-sub 9-pin
- USB 2.0 (x 4) 4-pin
- IEEE 1394a (FireWire) 4-pin
- 10/100/1000 Ethernet RJ-45
- 56Kbps Modem 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)—optional on models with P8400 CPU
- 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 (11.1V, 7800mAh)
- Battery operation: approximately 4–7 hours<sup>4</sup>
- Battery charging time: approximately 4 hours<sup>4</sup>
- AC Adapter: AC 100V–240V 50/60Hz, Auto sensing/switching worldwide power supply
- Pop-up on-screen battery status reporting

#### 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<sup>5</sup>
- Fingerprint scanner (option)
- SmartCard reader (option)

#### WARRANTY

- 3-year limited warranty, parts and labor

#### DIMENSIONS & WEIGHT

- 11.3"(L) x 14.0"(W) x 2.0"(H)



- 15.4" Widescreen Display
- Utilizes New Intel® Centrino® 2 Processor Technology
- Magnesium Alloy Case with Handle
- Shock-mounted, Quick-release Hard Drive
- Drop- and Spill-resistant
- Mobile Broadband-ready Design

#### INTEGRATED OPTIONS<sup>6</sup>

- Global Mobile Broadband Internet
  - Gobi™ Technology (EV-DO Rev. A, HSPA)
- SmartCard reader
- Fingerprint scanner

#### ACCESSORIES<sup>6</sup>

- AC Adapter (3-pin) CF-AA5803AM
- Battery Charger CF-VCB7B1W
- ToughMate ComUniversal Carrying Case (large capacity) 7540-P
- ToughMate Always-on 52 Case TM52-P
- Desktop Port Replicator CF-VEB522M
- Lithium Ion Battery Pack CF-VZSU29ASU
- Memory Cards
  - 1GB CF-WMBA801G
  - 2GB CF-WMBA802G

Total usable memory will be less depending upon actual system configuration.

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

<sup>3</sup>Max with standard RAM. The size of the VRAM cannot be set by the user and varies by operating system as well as size of RAM. Max. 512MB UMA (DVMT) VRAM on XP with standard RAM.

<sup>4</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. Battery life subject to change pending final testing.

<sup>5</sup>Requires software and activation to enable theft protection.

<sup>6</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 888.912.3151 or visit us on the web at [www.howard.com](http://www.howard.com)

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Global Mobile Internet



**THE RUGGED ORIGINAL.**