

Panasonic recommends Windows Vista® Business.



toughbook 19

Rugged, Lightweight, Wireless and Convertible

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



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DURABILITY FEATURES

- Designed using MIL-STD-810F test procedures
- Full magnesium alloy case
- Moisture- and dust-resistant LCD, keyboard and touchpad
- Sealed port and connector covers
- Shock-mounted removable hard drive in stainless steel case
- Rugged, dust-resistant hinges
- Vibration-, shock- and drop-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*
- 80GB hard drive (shock-mounted and user-removable)

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 (24-bit color depth)
- Intel® GM965 integrated video controller max. 384MB (DVMT) VRAM on XP*
- Anti-glare, anti-reflective coating

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
- Secure Digital (SD) card
- 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 V.92 Modem RJ-11

WIRELESS

- Optional integrated mobile broadband (WWAN)
- Intel® Wireless WiFi Link 4965AG 802.11a/b/g
- Bluetooth® v.2.0 + EDR
- 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: 7.3 hours**
- Battery charging time: 4.5 hours off, 7.5 hours on**
- 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***
- Fingerprint scanner (option)
- SmartCard reader (option)

WARRANTY

- 3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT

- 1.9"(H) x 10.7"(W) x 8.5"(D)
- 5.1 lbs.

INTEGRATED OPTIONS****

- Mobile Broadband Solutions
 - EV-DO Rev. A
 - HSDPA
- Global positioning system (GPS) receiver
- Backlit keyboard
- SmartCard reader
- Fingerprint scanner
- UL 1604 Class I, Division 2, Groups, A, B, C, D certified model



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ACCESSORIES****

- AC Adapter (3-pin) CF-AA1633AM
- Battery Charger CF-VCBTT1W
- CF-19 Tablet Large Stylus Pen (for Digitizer) CF-VNP011U
- CF-19 Tablet Stylus (for Digitizer) CF-VNP010U
- CF-19 Touchscreen Replacement Stylus CF-VNP003U
- ToughMate Com Universal Carrying Case (large capacity) COMUNIV-P
- ToughMate Com Universal 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

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.

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.

***Requires software and activation to enable theft protection.

****Accessories and Integrated Options may vary depending on your notebook configuration.

Please consult your reseller or Panasonic representative before purchasing.

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