

TOUGHBOOK[®]

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Powerful, Rugged and Wireless

- Full Magnesium Alloy Case with Handle
- Moisture- and Dust-resistant Design
- Shock-mounted, Removable HDD
- Wide Area Wireless and GPS Capable
- Intel[®] Centrino[®] Duo Mobile Technology



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Panasonic
ideas for life

Panasonic recommends Windows® XP Professional for Business

DURABILITY FEATURES

- Designed using MIL-STD-810F test procedures
- Full magnesium alloy case with handle
- Moisture- and dust-resistant LCD, keyboard and touchpad
- Sealed port and connector covers
- Shock-mounted, removable HDD in stainless steel case
- Rugged, dust-resistant hinges
- Vibration and drop-shock resistant
- Pre-installed replaceable screen film for touchscreen protection

CPU

- Intel® Core™ Duo Processor L2400
 - 2MB L2 cache
 - Processor speed 1.66GHz
 - 667MHz FSB

STORAGE & MEMORY

- 80GB or 60GB HDD
- 512MB SDRAM (DDR2) standard, expandable to 4096MB

DISPLAY

- With 80GB HDD: 13.3" 1024 x 768 (XGA) transmissive, daylight-readable TFT Active Matrix Color LCD with Touchscreen
- With 60GB HDD: 13.3" 1024 x 768 (XGA) transmissive, daylight-readable TFT Active Matrix Color LCD without Touchscreen
- External video support up to 1280 x 1024 at 16 million colors (24 bit color depth)
- Intel® Mobile 945GM graphic controller DVMT up to 128MB
- 1000 Nit (touchscreen models), 500 Nit LCD brightness (non-touchscreen models)

AUDIO

- Sigmatel™ STAC9751T AC-97 v2.1 Compliant Audio Codec
- Integrated front-facing speaker
- Convenient keyboard volume and mute controls

EXPANSION SLOTS

- PC Card Type II x 1
- Secure Digital (SD) Card
- Express Card/54 x 1

MULTIMEDIA POCKET

- Will accept optional Combo or Multi Drive, or 2nd Battery

KEYBOARD & INPUT

- 87-key with dedicated Windows® key
- Pressure sensitive touchpad with vertical scrolling support
- Touchscreen LCD (only with Touchscreen version)

INTERFACE

- External Video MiniD-sub 15 pin
- Headphones/Speaker Mini-jack Stereo
- Microphone/Line In Mini-jack
- Port Replicator 80 pin (Reinforced)
- Serial D-sub 9 pin
- Ext. Antenna Conn. 50 Ohm Coaxial
- USB 2.0 (x 3) 4 pin
- IEEE 1394a (Firewire) 4 pin
- 10/100/1000 Ethernet RJ-45
- 56K Modem RJ-11

WIRELESS

- Bluetooth® v2.0 + EDR
- Intel® PRO/Wireless 3945ABG LAN connection 802.11a/b/g
- 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, 8.55Ah) with overcharge protection
- Battery operation: TBD***
- Battery charging time: TBD***
- AC Adapter: AC 100V-240V 50/60Hz, Auto Sensing/Switching worldwide power supply
- Pop-up on-screen battery status reporting

POWER MANAGEMENT

- Hibernation, Standby, ACPI Bios

SOFTWARE

- Genuine Windows® XP Professional SP2
- Setup, Diagnostics, DMI Viewer, On-line Reference Manual, Adobe® Acrobat® Reader

SECURITY FEATURES

- Password Security: Supervisor, User, Hard-Disk Lock
- Cable lock slot
- Trusted Platform Module (TPM) Security Chip v.1.2

WARRANTY

- 3-year limited warranty, parts & labor

DIMENSIONS & WEIGHT

- 2.8"(H) x 11.9"(W) x 11.3"(D)
- 8.2 lbs.



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INTEGRATED OPTIONS****

- Wide Area Wireless Solutions
 - EVDO
 - HSDPA
- Global Positioning System (GPS) Receiver
- Backlit Keyboard – sealed rubber or plastic emissive
- SmartCard Reader
- Fingerprint Scanner

ACCESSORIES****

- AC Adapter (3 pin) CF-AA1653AM
- MIL-461 Compliant AC Adapter CF-AA1653ASM
- Battery Charger CF-VCBTB1U
- Combo Drive (DVD-ROM*/CD-RW**) CF-VDR301U
- DVD Multi Drive (DVD-RAM/DVD-RW/CD-RW**) CF-VDM301U
- ComFolio Universal Carrying Case (large capacity) CF-COMUNIV
- ComFolio Universal Jr. Carrying Case CF-COMUNIVJR
- Desktop Port Replicator CF-VEB272A2W
- External USB Floppy Drive CF-VF0U03W
- Lithium Ion Battery Pack CF-VZSU46U
- Lithium Ion Battery Pack for Multimedia Pocket CF-VZSU1430U
- Memory Cards
 - 512MB CF-WMBA5512
 - 1GB CF-WMBA5012
- ToughMate Nylon Sling Carrying Case CF-TM29
- Touchscreen Large Stylus with Tether Hole CF-VNP004U
- Vehicle Mount Port Replicator (USB 2.0) CF-WEB2732
- Vehicle Mount Port Replicator with Integrated Dual High-gain Antenna Pass-throughs (USB 2.0) CF-WEB2912
- Vehicle Mount Port Replicator with Integrated High-gain Antenna Pass-through (USB 2.0) CF-WEB2732CBL
- 13.3" LCD Protector Film CF-VPF03U

*Decoder software is required for DVD movie play. (Included)
 **CD authoring software is required to write CD-RW. (Included)
 ***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 2002.
 ****Accessories and Integrated Options may vary depending on your notebook configuration. Please consult your reseller or Panasonic representative before purchasing.

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