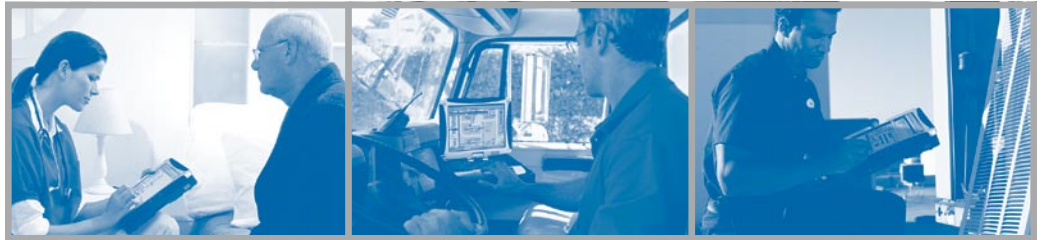**TOUGHBOOK®**

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Rugged, Lightweight, Wireless and Convertible

- *Notebook PC Convertible to Tablet PC*
- *Full Magnesium Alloy Case with Hand Strap*
- *Wide Area Wireless and GPS Capable*
- *Intel® Centrino® Duo Mobile Technology*
- *Daylight-readable Display*

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Rugged, Lightweight, Wireless and Convertible

TOUGHBOOK®

Panasonic recommends Windows Vista™ Business.

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 hinge
- Vibration- and drop-shock-resistant
- Pre-installed replaceable screen film for touchscreen protection

SOFTWARE
- Touchscreen PC version: Genuine Windows® XP Professional SP2*, Setup, Online Reference Manual, Adobe® Acrobat® Reader, DMI Viewer, Panasonic Handwriting, Software Keyboard, Display Rotation Tool, Hard Disk Data Erase Utility
- Tablet PC version: Genuine Windows® XP Tablet PC Edition 2005*, Setup, Online Reference Manual, Adobe® Acrobat® Reader, DMI Viewer, Display Rotation Tool, Hard Disk Data Erase Utility

CPU
- Intel® Core™ Duo Processor U2400
  - 2MB L2 cache
  - Processor speed 1.06GHz
  - 533MHz FSB

STORAGE & MEMORY
- 512MB SDRAM (DDR2) standard, expandable to 4096MB
- 80GB hard drive

DISPLAY
- Touchscreen PC version: 10.4" 1024 x 768 (XGA) transmissive, 470 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® 945GM graphic controller DVMT up to 128MB
- Low-reflection screen coating

AUDIO
- SigmaTel™ STAC9751 AC-97 v.2.2 Compliant Audio Codec
- Integrated speaker
- Convenient keyboard volume and mute controls

EXPANSION SLOTS
- PC card type II x 1
- Secure Digital (SD) card
- Express card/54 x 1

KEYBOARD & INPUT
- 82-key with dedicated Windows® key
- Pressure-sensitive touchpad with vertical scrolling support
- Active digitizer or touchscreen LCD

INTERFACE
- External video — D-sub 15
- Headphones/speaker — Mini-jack Stereo
- Microphone/line in — Mini-jack
- Port replicator — Dedicated 100-pin
- Serial port — D-sub 9
- Ext. antenna conn. (x2) — 50 Ohm Coaxial
- USB 2.0 (x2) — 4-pin
- IEEE 1394a (Firewire) — 4-pin
- 10/100 Ethernet — RJ-45
- 56K V.92 Modem — RJ-11

WIRELESS
- Bluetooth® v.2.0 + 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, 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
SECURITY FEATURES
- Hibernation, Standby, ACPI BIOS
- 32-character password security: Supervisor, User
- Cable lock slot
- Trusted platform module (TPM) security chip v.1.2
- Computrace® theft protection agent in BIOS***

WARRANTY
- 3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT
- 1.9"(H) x 10.7"(W) x 8.5"(D)
- 5 lbs.

INTEGRATED OPTIONS**
- Wide Area Wireless Solutions
  - EVDO
  - HSDPA
- Global positioning system (GPS) receiver
- Backlit keyboard
- Fingerprint scanner

- ■ *Notebook PC Convertible to Tablet PC*
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- ■ *Wide Area Wireless and GPS Capable*
- ■ *Intel® Centrino® Duo Mobile Technology*
- ■ *Daylight-readable Display*

ACCESSORIES****
- AC Adapter (3-pin) — CF-AA1633AM
- Battery Charger — CF-VCBTB1U
- CF-19 Tablet Large Stylus Pen (for Digitizer) — CF-VNP010U
- CF-19 Tablet Stylus (for Digitizer) — CF-VNP006U
- CF-19 Touch Replacement Stylus — CF-VNP003U
- Touchscreen Large Stylus with Tether Hole — CF-VNP004U
- ComFolio Universal Carrying Case (large capacity) — COMUNIV-P
- ComFolio Universal Jr. Carrying Case — COMUNIVJR-P
- Desktop Port Replicator — CF-VEB181AU
- External USB Combo Drive (DVD-ROM*****/CD-RW******) — CF-VDRRT3U
- External USB Floppy Drive — CF-VFDU03W
- FieldMate Always-on Case — FM19-P
- Lithium Ion Battery Pack — CF-VZSU48U
- Memory Cards
  - 512MB — CF-WMBA5512C
  - 1GB — CF-WMBA501G
  - 2GB — CF-WMBA502G
- ToughMate CF-19 "X" Hand Strap — FM19X-P
- Vehicle Port Replicator — CF-WEB184A
- 10.4" LCD Protector Film for Tablets — CF-VPF06U
- 10.4" LCD Protector Film for Touchscreen — CF-VPF08U

*Windows Vista™ upgrade available for additional cost.
**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 2005.
***Requires software and activation to enable theft protection.
****Integrated options and accessories may vary depending on your notebook configuration.
*****Decoder software is required for DVD movie play (included).
******CD authoring software is required to write CD-R/RW (included).
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.

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