

**TOUGHBOOK®**

# toughbook 19

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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**Panasonic**  
ideas for life

### Panasonic recommends Windows® XP Professional for 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 HDD in stainless steel case
- Rugged hinge
- Vibration and drop-shock resistant
- Pre-installed replaceable screen film for touchscreen protection

#### 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 HDD

#### 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 DVM up to 128MB
- Low Reflection Screen Coating

#### AUDIO

- SigmaTel™ STAC9751 AC-97 v2.2 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® 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, 5700mAh)
- Battery operation: 7 hours (range of approx. 4.5 - 8 hours)\*
- Battery charging time: Approx. 4.5 hours\*
- AC Adapter: AC 100V-240V 50/60Hz, Auto Sensing/Switching worldwide power supply

#### POWER MANAGEMENT

- Hibernation, Standby, ACPI BIOS

#### SOFTWARE

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

#### SECURITY FEATURES

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

#### WARRANTY

- 3-year limited warranty, parts & 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



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#### 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) CF-COMUNIV
- ComFolio Universal Jr. Carrying Case CF-COMUNIVJR
- Desktop Port Replicator CF-VEB181U
- External USB Combo Drive (DVD-ROM\*\*\*/CD-RW\*\*\*\*) CF-VDRRT3U
- External USB Floppy Drive CF-VFDU03W
- FieldMate Always-on Case CF-FM18
- Lithium Ion Battery Pack CF-VZSU48U
- Memory Cards
  - 512MB CF-WMBA5512
  - 1GB CF-WMBA501G
- Toughbook Wireless Display CF-08TX2CX1M
- ToughMate CF-19 "X" Handstrap CF-FM19X
- 10.4" LCD Protector Film for Tablets CF-VPF06U
- 10.4" LCD Protector Film for Touchscreen CF-VPF08U

\*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.

\*\*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](http://panasonic.com/toughbook).

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