



Computers for the Outside World™

toughbook 29

Powerful, Rugged and Wireless

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
- Vibration and drop-shock resistant design
- Rugged, dust-resistant hinges

CPU

- Intel® Centrino™ mobile technology
- Low Voltage Mobile Intel® Pentium® M Processor 1.2GHz
- 1MB on-die L2 cache

STORAGE & MEMORY

- 256MB SDRAM standard, expandable to 768MB (PC266 memory is required)
- 40GB HDD
- 1.44MB FDD standard [optional Combo Drive (DVD-ROM*/CD-RW**)]

DISPLAY

- 13.3" 1024 x 768 (XGA) transmissive, anti-reflective TFT Active Matrix Color LCD with or without Touchscreen
- 12.1" 800 x 600 (SVGA) transreflective, sunlight-readable TFT Active Matrix Color LCD with Touchscreen (available January 2004)
- External video support up to 1024 x 768 at 16 million colors (24 bit color depth)
- Intel® 855GM graphic controller, UMA (Unified Memory Access) up to 64MB

AUDIO

- Sigmatel 9753 audio controller
- Integrated speaker
- Convenient keyboard volume controls (Fn+F5/F6 keys)

PC CARD SLOT

- Type II x 2 or Type III x 1

MULTIMEDIA POCKET

- 1.44MB FDD, 3.5" (standard)
- Optional Combo Drive (DVD-ROM*/CD-RW**) (CF-VDR282U)
- Combo Drive and FDD can be used simultaneously (with FDD cable CF-VCF271)
- Optional 2nd battery pack (CF-VZSU1428)
- Optional Telephone Line Tester Modules

KEYBOARD & INPUT

- 87-key with dedicated Windows® key
- Enhanced pressure sensitive touchpad (optional)
- Touchscreen LCD (only with Touchscreen version)

INTERFACE

- Integrated 10/100 ethernet RJ-45
- Serial D-sub 9 pin
- Paralle D-sub 25 pin
- External Keyboard/Mouse Mini-DIN 6 pin
- USB 2.0 4 pin
- Port Replicator 80 pin (Reinforced)
- Headphones/Speaker Mini-jack Stereo
- Microphone/Line In Mini-jack
- Integrated 56K Modem RJ-11
- External Video MiniD-sub 15 pin

WIRELESS LAN

- Intel® PRO/Wireless 2100 network connection 802.11b

POWER SUPPLY

- Lithium Ion battery pack (11.1V, 6.6Ah)
- Battery operation: up to 4 hours (with first battery), up to 10 hours (with second battery)***
- Battery charging time: approximately 3 hours/off, 5.5 hours/on***
- AC Adapter: AC 100V-240V 50/60Hz, Auto Sensing/Switching worldwide power supply
- Quick access battery/HDD cover for easy battery replacement
- Pop-up on-screen battery status reporting

POWER MANAGEMENT

- Suspend/Resume Function, Hibernation

SOFTWARE

- Microsoft® Windows® XP Professional (Microsoft® Windows® 2000 Professional also available)
- Setup, Diagnostics, DMI Viewer, On-line Reference Manual, Adobe® Acrobat® Reader, Panasonic® Battery Monitor

SECURITY FEATURES

- Password Security: Supervisor, User
- Integrated Kensington Lock Slot

WARRANTY

- 3 year limited warranty, parts & labor

DIMENSIONS & WEIGHT

- 2.3"(H) x 9.5"(D) x 11.8"(W)
- 7.94 lbs, including battery, FDD and handle



- Full Magnesium Alloy Case with Handle
- Moisture- and Dust-resistant Design
- Shock-mounted, Removable HDD
- Wireless-ready Design
- Intel® Centrino™ Mobile Technology

INTEGRATED OPTIONS****

- Wide Area Wireless Solutions
 - CDPD (availability may vary)
 - GSM/GPRS with External SIM slot (availability may vary)
 - 1xRTT/CDMA 2000 (availability may vary)
- Bluetooth™ (availability may vary)
- Global Positioning System (GPS) Receiver
- Sealed Rubber LED Backlit Keyboard

ACCESSORIES****

- Combo Drive (DVD-ROM*/CD-RW**) CF-VDR282U
- External FDD Cable CF-VCF271
- Telephone Line Tester Modules*****
- Desktop Port Replicator CF-VEB272AW
- Vehicle Mount Port Replicator CF-WEB273
- Vehicle Mount Port Replicator with Integrated High-gain Antenna Pass-thru Cable CF-WEB273CBL
- Battery Charger CF-VCBTB1U
- Lithium Ion Battery Pack CF-VZSU29U
- 2nd Battery Pack CF-VZSU1428
- AC Adapter (3 pin) CF-AA1653AM
- Memory Cards
 - 256MB CF-WMBA30256
 - 512MB CF-WMBA30512
- 13.3" LCD Protector Film CF-VPF03U
- ToughMate CF2728
- Sling Carrying Case CF-TM28
- ComFolio Universal Carrying Case CF-COMUNIV

*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.

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

*****Special order item

Please consult your reseller or Panasonic representative before purchasing.

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For more information call 1-800-662-3537 or visit us on the Web at panasonic.com/toughbook.

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