



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
- Rugged, dust-resistant hinges
- Vibration and drop-shock resistant
- Pre-installed screen film for touchscreen protection

CPU

- Intel® Pentium® M Processor LV 718:
 - 1MB L2 cache
 - Processor speed 1.30GHz
 - 400MHz FSB

STORAGE & MEMORY

- With 60GB HDD:
 - 512MB SDRAM standard, expandable to 1536MB (PC2700 memory is required)
- With 40GB HDD:
 - 256MB SDRAM standard, expandable to 1280MB (PC2700 memory is required)

DISPLAY

- With 60GB HDD: 13.3" 1024 x 768 (XGA) transmissive, outdoor-readable TFT Active Matrix Color LCD with Touchscreen
- With 40GB HDD: 13.3" 1024 x 768 (XGA) transmissive, outdoor-readable TFT Active Matrix Color LCD with or without Touchscreen
- External video support up to 1280 x 1024 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 and mute controls

EXPANSION SLOTS

- PC Card Type II x 2 or Type III x 1

MULTIMEDIA POCKET

- 1.44MB FDD, 3.5" standard
- Combo Drive and FDD can be used simultaneously (with FDD cable)
- Will accept optional Combo or Multi Drive, Line Tester 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 Keyboard/Mouse Mini-DIN 6 pin
- External Video MiniD-sub 15 pin
- Headphones/Speaker Mini-jack Stereo
- Microphone/Line In Mini-jack
- Parallel D-sub 25 pin
- Port Replicator 80 pin (Reinforced)
- Serial D-sub 9 pin
- USB 2.0 4 pin
- 10/100 Ethernet RJ-45
- 56K Modem RJ-11

WIRELESS LAN

- Intel® PRO/Wireless 2200BG network connection 802.11b+g

POWER SUPPLY

- Lithium Ion battery pack (11.1V, 6.6Ah) with overcharge protection
- Battery operation: 6 hours, 54 minutes (with first battery), up to 14 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
- Pop-up on-screen battery status reporting

POWER MANAGEMENT

- Suspend/Resume Function, Hibernation

SOFTWARE

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

SECURITY FEATURES

- Password Security: Supervisor, User, Hard-Disk Lock
- Kensington Lock Slot

WARRANTY

- 3-year limited warranty, parts & labor

DIMENSIONS & WEIGHT

- 2.3"(H) x 11.8"(W) x 9.5"(D)
- 7.94 lbs.



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

INTEGRATED OPTIONS****

- Wide Area Wireless Solutions
 - GSM/GPRS with external SIM slot (availability may vary)
 - 1xRTT/CDMA 2000 (availability may vary)
 - EDGE (occupies PC card slots)
- Bluetooth™ (availability may vary)
- Global Positioning System (GPS) Receiver
- Sealed rubber LED backlit keyboard
- SmartCard Reader

ACCESSORIES****

- AC Adapter (3 pin) CF-AA1653AM
- MIL-416 Compliant AC Adapter CF-AA1653ASM
- Battery Charger CF-VCBTB1U
- Combo Drive (DVD-ROM*/CD-RW**) CF-VDR282U
- DVD Multi Drive (DVD-RAM/DVD-ROM*/DVD-RW/CD-R/CD-ROM/CD-RW**) CF-VDM291U
- ComFolio Universal Carrying Case (large capacity, fits all Toughbooks) CF-COMUNIV
- Desktop Port Replicator CF-VEB272AW
- External FDD Cable CF-VCF271
- Line Tester Modules*****
- Lithium Ion Battery Pack CF-VZSU29U
- 2nd Battery Pack CF-VZSU1428
- Memory Cards
 - 256MB CF-WMBA40256F
 - 512MB CF-WMBA40512E
 - 1GB CF-WMBA401024B
- Mobile Data Wireless Display CF-VDW07BHM
- Mobile Data Wireless Display with Magnetic Stripe Reader and Fingerprint Scanner CF-VDW07RFHM
- Stylus Pen with Tether Hold CF-VNP004U
- ToughMate CF29 Nylon Sling Carrying Case CF-TM29
- Vehicle Mount Port Replicator CF-WEB273
- Vehicle Mount Port Replicator with Integrated High-gain Antenna Pass-thru Cable CF-WEB273CBL
- Vehicle Mount Port Replicator with Integrated Dual High-gain Antenna Pass-thru Cables CF-WEB291
- 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.

*****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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