



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 738:
 - 2MB L2 cache
 - Processor speed 1.40GHz
 - 400MHz FSB

STORAGE & MEMORY

- With 80GB HDD:
 - 512MB SDRAM standard, expandable to 1536MB (PC2700 memory is required)
- With 60GB HDD:
 - 256MB SDRAM standard, expandable to 1280MB (PC2700 memory is required)

DISPLAY

- With 80GB HDD: 13.3" 1024 x 768 (XGA) transmissive, outdoor-readable TFT Active Matrix Color LCD with Touchscreen
- With 60GB 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
- 380 Nit LCD brightness

AUDIO

- Sigmatel™ 9751 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 Video MiniID-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 x 2
- 10/100 Ethernet RJ-45
- 56K Modem RJ-11

WIRELESS LAN

- Intel® PRO/Wireless 2915ABG network 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

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 SP2
- Setup, Diagnostics, DMI Viewer, On-line Reference Manual, Adobe® Acrobat® Reader, Panasonic® Battery Monitor

SECURITY FEATURES

- Password Security: Supervisor, User, Hard-Disk Lock
- Cable lock slot

WARRANTY

- 3-year limited warranty, parts & labor

DIMENSIONS & WEIGHT

- 2.3"(H) x 11.8"(W) x 9.5"(D)
- 7.9 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
 - CDMA 1xEVDO/1xRTT (availability may vary)
 - Edge/GPRS/GSM with external SIM slot (availability may vary)
- 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-RW/CD-RW**) CF-VDM291U
- ComFolio Universal Carrying Case (large capacity) CF-COMUNIV
- ComFolio Universal Jr. Carrying Case CF-COMUNIVJR
- Desktop Port Replicator CF-VEB272A2W
- External FDD Cable CF-VCF271
- Lithium Ion Battery Pack CF-VZSU29U
- Lithium Ion Battery Pack for Multimedia Pocket CF-VZSU1428W
- 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
- ToughMate CF29 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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For more information call 877-870-3806 or visit us on the Web at www.mruggedmobile.com.

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