

# Panasonic®

## CF-M34

Ruggedized and  
Ultra Portable Notebook PC

# TOUGHBOOK<sup>™</sup> 34

*Built for the Field Specialist —  
Rugged, Compact, and Easy to View*

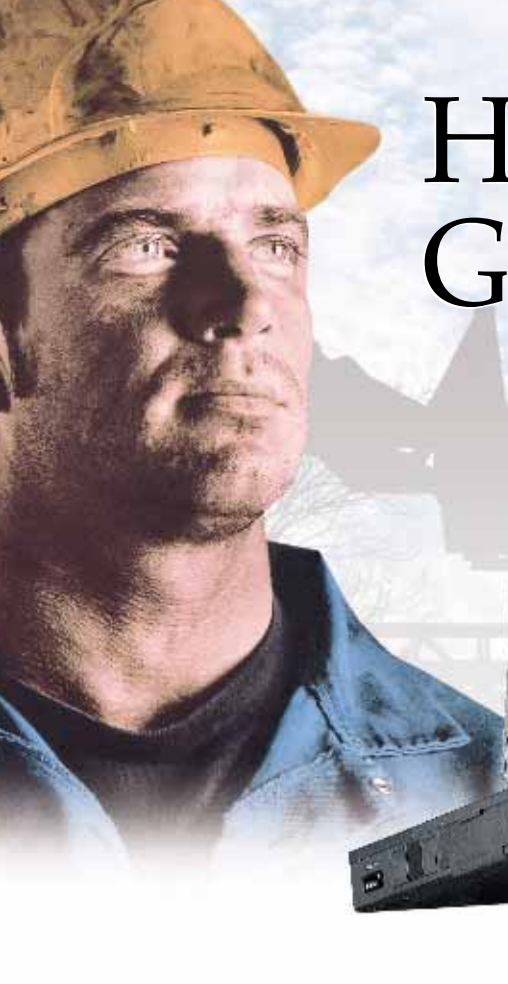
- New Field-Design  
High brightness LCD  
with Touchscreen
- Wireless Ready
- Internal Modem  
and LAN

Anti-reflectional  
**TOUCH**  
screen





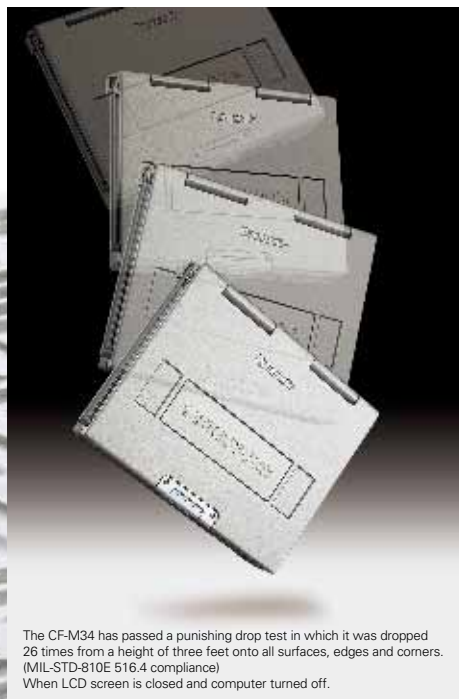
# Here's What You Need to Get Data on the Fly.



## Fully Ruggedized Yet Compact

Vibration, shock, rain, dust — the rugged CF-M34 is designed to withstand all these and more. Its sturdy magnesium-alloy body, shock-damped HDD, totally water resistant design (IPX3 full compliance), and Panasonic's popular Toughbook technology make it the perfect tool for the roughest field conditions.

See inside for details on its rugged build.



The CF-M34 has passed a punishing drop test in which it was dropped 26 times from a height of three feet onto all surfaces, edges and corners. (MIL-STD-810E 516.4 compliance)  
When LCD screen is closed and computer turned off.

## Designed Throughout for Field Operation

Keep your work gloves on. The CF-M34 features a touch-screen that you can operate even wearing gloves.

Its high-brightness LCD (280 cd) also makes it easy to view in outdoor lighting, with a 225% increase in brightness over conventional models. And when you're done in the field, the CF-M34's backlighting ensures good readability under indoor lighting, too.



Conventional LCD

LCD with AR Coating





The new Toughbook CF-M34 gives field specialists the power and performance they need, while standing up to even the harshest outdoor conditions. In toughness, compactness and Windows® versatility, this rugged notebook PC is in a class of its own.

The optional wireless modem makes it easy to exchange data with a host machine or server, even from distant work sites. It's ready for the future, too, designed to let you add integrated wireless LAN functions as they become available.

The CF-M34 reflects Panasonic's keen understanding of what people need in the field. See how it can serve you as a tough, high-performance work partner.



**Lightweight and compact\* — about half the weight and 44% the overall size of the Toughbook CF-28.**

\* Without hand strap, carrying handle, and wireless modem

## Wireless Modem (optional)



The CF-M34's optional wireless modem requires no cord connection, so it's easier than ever to get needed information while in the field. You can download data from the office's main computer or connect to a server without leaving the work site — a big advantage in efficiency.

\* Applicable systems: Mobitex, CDPD in North America, GSM in Europe

The modem can also be used independently, so you can receive e-mail even when the CF-M34's main power is switched off. This helps conserve battery power.



**The Toughbook CF-28 puts advanced specifications in a rugged body. Wireless modem-ready and available with an optional CD, CD-RW or DVD drive for large-data applications, this model is ideal for field supervisors.**



Panasonic PCs use genuine Microsoft® Windows®.  
[www.microsoft.com/piracy/howtotell](http://www.microsoft.com/piracy/howtotell)



to

# TOUGHBOOK

**Works Hard. Takes a Beating.  
Like Any Other Tool for the Field.**

## Magnesium-Alloy Casing

For superior shock resistance, the CF-M34 casing is made of a tough magnesium alloy that's 20 times stronger than ABS resin.



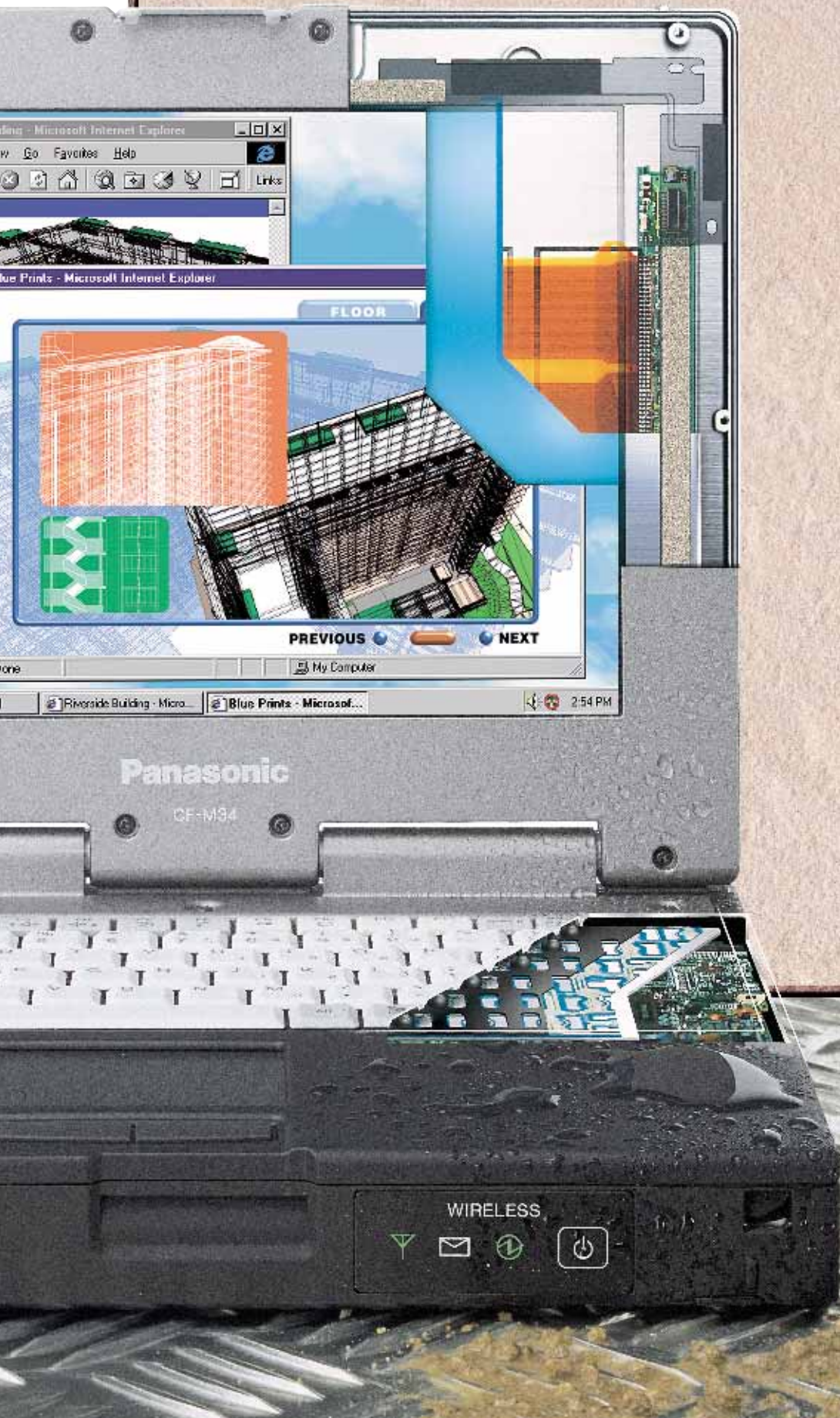
## Shock-Damped HDD

A new, thin shock-damping material is used to isolate the hard disk drive, cutting the size of the drive to about half that of our previous model. It could help protect your data when CF-M34 is dropped by accident.



## Vibration-, Shock- and Water-Resistant LCD

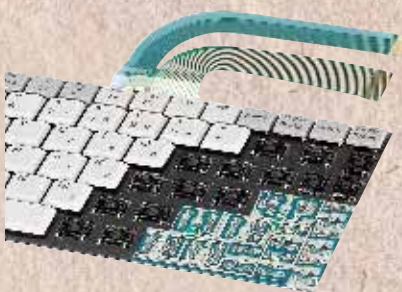
An internal damper protects the display, absorbing impact and preventing bending or twisting. The surface of the LCD screen is water-resistant, and a rubber seal around all screen edges protects the unit from water getting inside.





Sealed Keyboard

Keyboard circuitry is thoroughly sealed for water protection, and integrated with the keyboard and touch pad in a single panel that is itself sealed from the PC's interior. Therefore, even if water enters via key gaps, it cannot reach the CPU and other internal circuits.



Water-Resistant Pressure-Sensing Touch Pad

Integrated with the keyboard, this pointing device is water resistant. It operates in response to pressure, so you can control the cursor even with wet hands, while wearing gloves. Highly reliable, it avoids the dust- and dirt-collecting problems of track balls.

Reliable LCD Hinges

Dust stoppers prevent dust from building up in the hinges, assuring smooth operation. The hinges are built tough enough for field use.

Port and Jack Covers

All connection terminals have rubber seals, eliminating openings that could let in dust or water.



- 1 Hand Strap/Shoulder Strap**

**2** The CF-M34 comes equipped with a hand strap that lets you hold the unit with one hand while operating it with the other. Simply attach the extra strap length to convert the hand strap into a shoulder strap for easy carrying.
- 4 Easy-to-Access Battery**

The CF-M34's battery is quick and easy to change. Simply flick open the battery compartment lid on the unit's bottom.
- 5 Heat-Insulating Coating**

The CF-M34's entire bottom surface is coated with a special heat-insulating material. This helps to minimize uncomfortable heat while being carried and operated.
- 3 Carrying Handle (Optional CF-VSH341)**

The carrying handle features a thick grip that gives you a good, secure hold of the CF-M34 for safe carrying or operation.
- 6 Advanced Applications**

  - Hard Disk Lock

**More Possibilities for Expanded Performance**

\* The port replicator terminals on the rear panel (4, 9, 10, 11) can be positioned on the bottom of the unit if desired. Please ask your Panasonic sales company.

Port Replicator (CF-VEB343)

- |                |                  |                   |                                      |
|----------------|------------------|-------------------|--------------------------------------|
| 1 PC Card Slot | 4 USB Port**     | 7 Microphone Jack | 10 External Mouse/Keyboard Connector |
| 2 Modem Port   | 5 Power Switch   | 8 DC In Jack      | 11 VGA (External Display Port)       |
| 3 LAN Port     | 6 Headphone Jack | 9 Serial Port**   |                                      |

\*\* Restrictions apply to certain models. Please consult a sales office near you for details.

# SPECIFICATIONS for CF-M34

<b>CPU</b>	Ultra Low-Voltage Mobile Intel® Pentium® III Processor 700 MHz-M -Supports Enhanced Intel® SpeedStep™ Technology
<b>L2 Cache</b>	512 KB On-die
<b>RAM</b>	256 MB SDRAM Standard
<b>VRAM</b>	4 MB
<b>HDD</b>	20 GB
<b>LCD</b>	8.4-type High-brightness Active Matrix (TFT) Color with Touchscreen, FL Backlight and AR Coating 800 x 600 Dot Pixels 262,144 Colors (A 16 M color display is achieved by using the dithering function.)

<b>LCD Outside Cabinet</b>	Magnesium alloy
<b>Modem</b>	Internal 56 kbps V.90 Compliant 14.4 kbps Fax Class 1 100BASE-TX/10BASE-T, RJ45 Jack
<b>LAN</b>	16 bit stereo WAVE playback
<b>Sound</b>	87 Keys for US (AT 101 keyboard Compatible) 88 Keys for Europe (AT 102 keyboard Compatible)
<b>Keyboard</b>	Touch Pad, Touchscreen
<b>Pointing Device</b>	6 LEDs (Power, Battery, HDD, NumLK, CapsLK, ScrLK)
<b>Indicators</b>	Serial (16550A Compatible): Dsub 9-pin Parallel (Uni-directional, Bi-directional, EPP, ECP): Dsub 25-pin (via Port Replicator*) * CF-VEB341/VEB342
<b>Interface</b>	External Display: Dsub 15-pin (via Port Replicator) External Mouse/Keyboard: Mini-DIN 6-pin (via Port Replicator) Microphone: Mini Jack Headphone: Mini Jack (stereo) DC IN: Jack USB: 4-pin

<b>Internal Slots</b>	PC card slot: Type II x 1 Optional RAM Module: DIMM x 1
<b>Power</b>	Battery: Li-ion 11.1 V [4.0 AH] Battery Life: 3.0~4.6 Hours Varies depending on conditions Charging Time: 3.0 Hours/OFF, 4.0 Hours/ON Varies depending on conditions

<b>Power Management</b>	Suspend/Resume Function, Hibernation, ACPI BIOS
<b>Software</b>	Microsoft® Windows® 2000 Professional operating system with Service Pack2†/Microsoft® Windows NT® Workstation Version 4.0† operating system with Service Pack 6a, Acrobat Reader 5.0, DMI Viewer, Display Rotation Tool (Windows® 2000 only)

<b>AC Adapter</b>	AC 100 V~240 V 50/60 Hz, Auto Sensing/Switching DC 15.1 V 2.6 A
<b>Security Feature</b>	Password Security (Supervisor Password, User Password)
<b>Dimensions (W x H x D)</b>	229 mm {9.0"} x 43.0 mm {1.7"}* x 188 mm {7.4"} * Excluding protrusions
<b>Weight</b>	1.8 kg {4 lb.}

OPTIONS	RAM Module	144-pins, 3.3 V, SO-DIMM, SDRAM * For recommended RAM modules, consult your Panasonic dealer.
	Port Replicator	CF-VEB341 / VEB342 / VEB343
	External FD Drive	CF-VFDU03
	Battery Pack	CF-VZSU15A
	Battery Charger	CF-VCB371
	AC Adapter	CF-AA1527
	Carrying Handle	CF-VSH341
	Hand Strap/Shoulder Strap	CF-VSS341

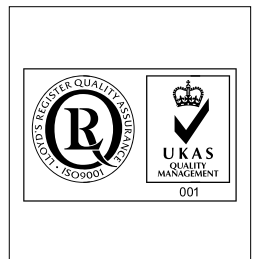
Specification and configuration may vary depending on country.  
Consult a sales office near you for more details.

## \* For North America

1. The set-up utilities for both Windows® 2000 and Windows® NT 4.0 operating systems are preinstalled on this system.
2. When the system is initially started, you have the option of selecting operating system of your choice.
3. Any operating system that was not selected initially will be deleted automatically.
4. If you require an operating system other than which was selected initially, the required operating system will need to be purchased from a retailer at your expense.



As an ENERGY STAR® Partner, Matsushita Electric Industrial Co., Ltd. has determined that this product meets the ENERGY STAR® guidelines for energy efficiency. Active Matrix color display conforms to industry standards. Some displays may contain isolated illuminated or dark pixels as an artifact of the manufacturing process (Effective pixels: Minimum 99.998%). ToughBook is a trademark of Matsushita Electric Industrial Co., Ltd. The Intel Inside Logo and Pentium are registered trademarks of Intel Corporation. Intel is a registered trademark of Intel Corporation. Microsoft and Windows are registered trademarks of the Microsoft Corporation. All rights Reserved. Microsoft and IntelliMouse are registered trademarks and the Genuine Microsoft Products logo is a trademark of Microsoft Corporation in the United States of America and in other countries. Acrobat is a registered trademark of Adobe Systems Incorporated.



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The IT Products Division has received ISO 14001 certification for its environmental management system.