

Panasonic recommends Windows® XP Professional



# Toughbook CF-51

**The versatile notebook for everyday use**

- Based on Intel® Centrino® Duo Mobile Technology
- Operating System: Genuine Windows® XP Professional
- Bright 15" Active Matrix (TFT) colour LCD
- Robust magnesium alloy display case
- Vibration-protected, easily removable hard disk drive
- Combo drive and FDD for multimedia pocket
- Firewire (IEEE1394), USB 2.0 and serial ports
- Battery life up to 5.5 hours
- Withstands drops from a height of 30cm



**TOUGHBOOK®**

**Panasonic**  
ideas for life

Intel, Intel Inside, the Intel Inside logo, Intel Core, Intel Centrino, and the Intel Centrino logo are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

Panasonic recommends Windows® XP Professional



The new CF-51 is the ideal all-purpose notebook when you are on the move or in the office. It is equipped with a combo drive and a floppy drive for the multimedia pocket and it offers numerous ports, such as serial, USB 2.0 and Firewire (IEEE1394) to connect various peripheral devices.

The 15" bright XGA resolution display is comparable to desktop computer screens. As a Toughbook, the CF-51 boasts a range of "ruggedised" features protecting its key components against damage: The display is surrounded by dampers and is mounted in a durable magnesium case. The hard disk drive is embedded in a shock-absorbing foam and is connected to the motherboard by flexible cabling.

The new Intel® Centrino® Duo Mobile Technology allows for greater flexibility and guarantees optimal WLAN reception with two integrated antennas. Additionally, this latest technology contributes to a running time of up to 5.5 hours with the CF-51's durable battery.



Mobile Computing Platform	Intel® Centrino® Duo Mobile Technology	
	- Intel® Core™ Duo Processor T2300E (1.66GHz, 2MB L2 cache, 667MHz FSB)	
	- Chipset Intel® 945GM	
	- Intel® PRO/Wireless 3945ABG network connection, supporting IEEE 802.11a/b/g (max. 54Mbps)	
OS	Genuine Windows® XP Professional (Service Pack 2 with Advanced Security Technologies)	
RAM	512MB DDR2-533 SDRAM (expandable to 4GB)	
Graphic Chip	Intel® 945GM graphics controller, UMA (unified memory architecture) up to 128MB	
HDD	80GB (shock resistant; withstands a 90cm drop)	
Optical Drive	DVD-ROM & CD-R/RW combo drive	
FDD	1.44MB (double-sided, high-density, double tracked) 720KB (double-sided, double-density, double tracked)	
LCD	Bright 15" XGA Active Matrix (TFT) colour LCD 1024 x 768 pixels (XGA), 16 million colours, max. 200cd	
LCD Casing	Magnesium alloy	
LAN	Integrated, 1000 BASE-T (Gigabit Ethernet)/100 BASE-TX/10 BASE-T	
Modem	Integrated, 56kbps, V.92 compatible, 14.4kbps fax class 1	
Sound	SigmaTel™ STAC9200 (conforms to Intel® High Definition Audio) WAVE and MIDI playback	
Speakers	Integrated stereo speakers	
Keyboard	88 keys for Europe (compatible with keyboard AT 102)	
Pointing Devices	Touchpad	
Indicators	9 LEDs (2x Power, Battery, HDD, Multimedia Pocket, NumLK, CapsLK, ScrLK, SD)	
Ports	Serial (16550A compatible):	D-sub 9-pin
	External display (VGA port):	D-sub 15-pin
	External mouse / keyboard:	Mini-DIN 6-pin
	Headphones:	Mini-jack (stereo)
	Microphone:	Mini-jack (stereo)
	DC input:	Socket
	USB 2.0:	4-pin (4x)
	Firewire (IEEE1394):	4-pin (1x)
	Modem:	RJ11 socket
	LAN:	RJ45 socket
	Port replicator:	100-pin
Expansion Slots	2x PC card type I or 2x type II or 1x type III 1x SD card (secure digital memory) 2x Optional RAM Module (200-pin, 1.8V, SO-DIMM, DDR-SDRAM, PC2 4200 compliant; 1 slot used for standard RAM)	
Power	Battery:	Lithium-Ion (11.1V, 7.65Ah)
	Battery life:	Approx. 5.5 hours (MobileMark™ 2002 – 60cd)
	Charging time:	Approx. 4.5 hours
Power Management	Standby function, hibernation function, ACPI BIOS	
AC Adapter	AC 100V ~ 240V, 50/60Hz, automatic detection / switch, DC 15.6V 5.0A	
Software	Adobe® Reader, installation program, DMI viewer, online reference handbook	
Security Features	TPM (Trusted Platform Module – TCG V1.2 compliant) Password security (supervisor password, user password, hard disk lock) Integrated security lock slot	
Dimensions (W x H x D)	325mm x 47mm x 278mm / 12.8" x 1.9" x 10.9" (without protruding parts)	
Weight	3.1kg	
Accessories	512MB RAM module:	CF-WMBA5512C
	1GB RAM module:	CF-WMBA501GC
	AC adapter:	CF-AA1653A
	Batter charger:	CF-VCBTB1U
	Battery pack:	CF-VZSU29AU
	Battery pack for Multimedia Pocket:	CF-VZSU1473U
	DVD-RAM multi-drive:	CF-VDM511W
	Port replicator:	CF-VEB511Z

Specification and configuration may vary depending on country. Accessories may vary depending on your notebook configuration. Consult a Panasonic sales office near you for more details and availability of integrated options.



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 colour display conforms to industry standards. Some displays may contain isolated illuminated or dark pixels as an artefact of the manufacturing process (effective pixels: minimum 99.998%). RAM capacity calculated as follows: 1MB = 1,048,576 bytes. HDD capacity calculated as follows: 1GB = 1,000,000,000 bytes. The FDD capacity calculated as follows: 1MB = 1,024,000 Bytes. Panasonic and Toughbook are brand names and registered trademarks of Matsushita Electric Industrial Co., Ltd. Microsoft® and Windows® are registered trademarks of Microsoft® Corporation of the United States and/or other countries. Acrobat® is a registered trademark of Adobe® Systems Incorporated. All other brand names shown are the registered trademarks of the relevant companies. All rights reserved. All working conditions, times and figures quoted are optimum or ideal levels and may differ as a result of individual and local circumstances.

Panasonic Marketing Europe GmbH, Panasonic Computer Products Europe Headquarters, Hagenauer Straße 43, 65203 Wiesbaden (Germany).

**Panasonic**  
ideas for life

www.toughbook.eu