

Panasonic recommends Microsoft® Windows® XP Professional



Toughbook CF-29

The rugged notebook that can handle the toughest jobs

- Based on Intel® Centrino™ Mobile Technology
- Operating System: Microsoft® Windows® XP Professional
- Vibration and shock resistant (MIL-STD 810F)
- Water and dust resistant (IP54, MIL-STD 810F)
- 13.3" transmissive Active Matrix (TFT) colour LCD with touchscreen
- Incredible battery life of up to 8 hours
- Wireless LAN integrated
- Integrated options: Bluetooth®, GSM/GPRS/EDGE, GPS and SmartCard



TOUGHBOOK®
Computers for the Outside World™

Panasonic
ideas for life

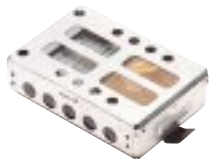
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The CF-29 is the flagship model of the Toughbook range and boasts a whole host of innovations, wireless applications and rugged features.

Constructed using a re-designed ultra strong magnesium alloy case, the CF-29 Toughbook is vibration and shock resistant to MIL-STD 810F and comes with a 32mm thick, foam packed HDD casing, enabling it to withstand drops from a height of 90cm. A special HDD-heater allows the CF-29 to operate under extreme conditions up to -20°C while the anti-sun-reflective silver painting and the internal thermal pipe system of the unit prevent heat absorption in hot outdoor conditions. All joins and external covers have been sealed using a new dispense gasket method that creates a watertight seal with flexible elastomer to ensure dust and water resistance to the IP54-standard.

The Intel® Centrino™ Mobile Technology allows for greater flexibility and guarantees optimal WLAN reception with two integrated antennas located in the top of the display unit. In conjunction with the CF-29's redesigned durable battery a running time of up to 8 hours can be achieved. The 'hot swapping' multimedia pocket gives the flexibility to swap between several optical drives and even a secondary battery.



Mobile Computing Platform	Intel® Centrino™ Mobile Technology - Intel® Pentium® M Processor Low Voltage 778 (1.6GHz) - Chipset Intel® 915 GMS - Intel® Pro/Wireless network connection, supporting IEEE 802.11a/b/g (max. 54Mbps)
OS	Microsoft® Windows® XP Professional with Service Pack 2
L2 Cache	2MB on-die
RAM	512MB DDR 2-SDRAM (expandable to 1536MB)
Graphic Chip	Intel® 915GMS graphic controller, UMA (unified memory architecture) up to 128MB
HDD	80GB
FDD	1.44MB (double-sided, high-density, double track) 720KB (double-sided, double-density, double track)
LCD	13.3" transmissive XGA Active Matrix (TFT) colour LCD with touchscreen 1024 x 768 pixels (XGA), 16 million colours, approx. 500 cd
LCD Cabinet	Full magnesium alloy
LAN	Internal 1000 BASE-T (Gigabit Ethernet)/100 BASE-TX/10 BASE-T
Modem	Internal 56kbps V.92 compliant, 14.4kbps fax class1
Sound	SigmaTel™ STAC9751T WAVE and MIDI playback, software control of sound volume (FN + F5/F6 keys)
Speaker	Integrated speaker
Keyboard	87 keys for US/Canada (AT 101 keyboard compatible) 88 keys for Europe (AT 102 keyboard compatible)
Pointing Devices	Touchpad and touchscreen
Indicators	9 LEDs (Power, Battery, HDD, Multimedia Pocket, MP power, NumLK, CapsLK, ScrLK, SD LED)
Interfaces	Serial (16550A compatible): D-sub 9-pin Parallel: D-sub 25-pin External display (VGA port): D-sub 15-pin Headphone: Mini-jack (stereo) Microphone: Mini-jack (mono) DC In: Jack USB 2.0: 2x 4-pin Modem: RJ11 jack LAN: RJ45 jack Port replicator: 80-pin
Expansion Slots	PC card slot: 2x type I or 2x type II or 1x type III SD card slot: 1x Optional RAM module: 1x SO-DIMM
Power	Battery: Li-ion (11.1V, 7.65Ah) Battery life: Approx. 8 hours (varies depending on conditions) Charging time: Approx. 4.5 hours/off, 8 hours/on (varies depending on conditions)
Power Management	Standby function, hibernation function, ACPI BIOS
AC Adapter	AC 100V ~ 240V, 50/60 Hz, auto sensing/switching DC 15.6V, 5.0A
Software	Adobe® Acrobat® Reader, setup utility, DMI viewer, online reference manual, Panasonic's Hand Writing
Security Feature	Password security (supervisor password, user password, hard disk lock) Integrated Kensington lock slot
Dimensions (WxHxD)	302mm x 64.3mm x 273mm / 11.9" x 2.5" x 10.7" (excluding protrusions)
Weight	3.6kg / 8.1lb
Integrated Options	GSM/GPRS/EDGE, Bluetooth®, GPS, Smart card reader, backlit keyboard
Accessories	512MB RAM module: CF-WMBA5512 1GB RAM module: CF-WMBA501G Battery pack: CF-VZSU29AU Battery charger: CF-VCTB1U CD-ROM pack: CF-VCD281U Combo drive pack: CF-VDR291U DVD multi drive: CF-VDM292U Port replicator: CF-VEB272A2W Car mount: CF-WEB2732 AC adaptor: CF-AA1653A
Testing Standards	Water resistance test: IEC529 (JIS C0920) IP-X4, MIL-STD 810F 506.4-III Dust resistance test: IEC529 (JIS C0920) IP-5X, MIL-STD 810F 510.4-Level Gravity drop resistance test: MIL-STD 810F 516.5 (90cm drop) Vibration resistance test: MIL-STD 810F 514.5 category 24

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

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. Toughbook is a trademark of Matsushita Electric Industrial Co., Ltd. Intel and Pentium are registered trademarks of Intel Corporation of its subsidiaries in the United States and/or other countries. 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 rights Reserved.

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