Panasonic recommends Windows® XP Professional

intel
Centrino® Duo
Dual-core.
Do more.

RUGGED AND RELIABLE FOR THE TOUGHEST JOBS.
TOUGHBOOK CF-30

Based on
Intel® Centrino® Duo Mobile Technology

OS: Genuine Windows® XP Professional

Vibration and shock resistant (MIL-STD 810F)

Water and dust resistant (IP54, MIL-STD 810F)

Extremely bright 13.3″ Active Matrix (TFT) LCD
with touchscreen (up to 1000cd)

Long battery life of up to 8 hours

Firewire (IEEE1394a), USB 2.0 and serial port

Bluetooth® and WLAN integrated

Optional integrated UMTS/HSDPA module

TOUGHBOOK®

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Information at www.toughbook.eu

Dual-core. Do more.

As fully ruggedized reference model the CF-30 unifies a whole host of innovations and rugged features. Its 13.3″ touchscreen display features an outstanding brightness of up to 1000cd that guarantees brilliant visibility even in glaring environments. Constructed using an ultra strong magnesium alloy case, the CF-30 is vibration and shock resistant to MIL-STD 810F and comes with a shock-damping foam packed HDD casing, enabling it to withstand drops from a height of 90cm. A special HDD-heater allows for operating under extreme cold conditions while the anti-sun-reflective silver painting on the casing and the carry handle with integrated touchpen holder prevent heat absorption in hot outdoor conditions. All joins and external covers are sealed providing the unit a dust and water resistance to the IP54-standard. The 'hot swapping' multimedia pocket gives the flexibility to swap between several drives and even a secondary battery.
The Intel® Centrino® Duo Mobile Technology promises high performance and efficient energy consumption. Thanks to two Diversity-WLAN-antennas located in the top of the display unit an optimum WLAN data transfer can be achieved. The high-power battery allows for a running time of up to 8 hours.

Mobile Computing Platform	Intel® Centrino® Duo Mobile Technology	
	– Intel® Core™ Duo Processor Low Voltage L2400 (1.66GHz, 2MB L2 cache, 667MHz FSB)	
	– Intel® 945GM Express Chipset	
	– 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 4096MB)	
Graphic Chip	Intel® 945GM graphic controller, UMA (unified memory architecture) up to 128MB	
HDD	80GB (shock resistant; withstands a 90cm drop)	
LCD	13.3″ anti-glare high-brightness XGA Active Matrix (TFT) colour LCD with touchscreen (up to 1000 cd)	
	1024 x 768 pixels (XGA), 16 million colours	
LCD Cabinet	Full magnesium alloy	
Bluetooth®	Version 2.0 + EDR; can be switched off with wireless switch	
WLAN	IEEE 802.11a/b/g (max. 54Mbps); can be switched off with wireless switch	
LAN	IEEE 802.3 10 Base-T, IEEE 802.3u 100 Base-TX, IEEE 802.3ab 1000 Base-T	
Modem	Data: 56kbps (V.92), FAX: 14.4kbps	
Sound	Supporting Intel® High Definition Audio Subsystem	
	WAVE and MIDI playback, software control of sound volume (FN + F5/F6 keys)	
	Monaural speaker	
Input Devices	Touchscreen, Touchpad and Keyboard with 88 keys	
Indicators	11 LEDs (Power, Battery, HDD, Multimedia Pocket, MP power, NumLK, CapsLK, ScrLK, SD Card, Wireless, Wireless Coverage)	
Interfaces	Serial (16550A compatible):	D-sub, 9-pin
	External display (VGA port):	Mini D-sub, 15-pin
	Headphone:	Mini-jack, 3.5 DIA
	Microphone:	Mini-jack, 3.5 DIA, mono
	DC In:	Jack
	USB 2.0:	3x 4-pin
	Modem:	RJ-11
	LAN:	RJ-45
	Firewire (IEEE1394a):	1x 4-pin
	External Antenna:	2x (Dedicated 50Ω coaxial connector)
	Port Replicator:	80-pin
Expansion Slots	PC Card:	1x Type I or 1x Type II (3.3V: 400mA, 5V: 400mA)
	Express Card:	1x ExpressCard/34 or ExpressCard/54
	SD Memory Card:	1x (Data transfer rate = 8MB per second)
	Optional RAM Module:	1x SO-DIMM (200-pin, 1.8V, DDR2 SDRAM, PC2-4200 Compliant)
Power	AC Adapter:	Input: 100 ~ 240V AC, 50Hz/60Hz; Output: 15.6V DC, 5.0A
	Battery:	Li-ion (10.65V, 8.55Ah)
	Battery life:	Approx. 4 – 8 hours (Battery Mark 4.01 – max./min. LCD brightness)
	Charging time:	Power on: approx. 8.5 hours
Power Management	Standby function, Hibernation function, ACPI BIOS	
Software	Windows® Media Player 10, Adobe® Reader, Intel® Matrix Storage Manager, Intel® PRO/Wireless Software, Bluetooth®	
	Stack for Windows® by TOSHIBA, Wireless Switch Utility, Panasonic Hand Writing, DMI Viewer, PC Information Viewer,	
	SD Utility, Battery Recalibration Utility, Infineon TPM Professional Package, Recover Pro™ 6, Hard Disk Data Erase	
	Utility, Setup Utility, PC-Diagnostic Utility	
Security Feature	Password security (supervisor password, user password, hard disk lock)	
	TPM (Trusted Platform Module, TCG V1.2 compliant)	
	Integrated hardware security lock slot	
Dimensions (WxHxD)	302mm x 67.5mm/69.5mm* x 285mm/11.9″ x 2.7″/2.8″ x 11.3″ (excluding protrusions; * front/back)	
Weight	3.8kg / 8.4lb (including battery and carry handle)	
Integrated Options	GPS (WAAS), Fingerprint Reader, UMTS/HSDPA module	
Accessories	512MB RAM module:	CF-WMBA5512C
	1GB RAM module:	CF-WMBA501GC
	AC adapter:	CF-AA1653AE, CF-AA1653AG, CF-AA1653AT
	Battery pack:	CF-VZSU46U
	Battery pack (second Battery):	CF-VZSU1430U (for Multimedia Pocket)
	Battery charger:	CF-VCBTB1W
	Car-Mount:	CF-WEB2732
	Combo Drive Pack:	CF-VDR301U (for Multimedia Pocket)
	DVD Multi Drive Pack:	CF-VDM301U (for Multimedia Pocket)
	External FDD (USB):	CF-VFDU03U
	Port Replicator:	CF-VEB272A2W
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. 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.

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