

Windows®. Life without Walls™.
Panasonic recommends Windows 7.

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ideas for life



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TOUGHBOOK CF-31 STANDARD MODEL

THE FULLY RUGGED, FULL-SIZE NOTEBOOK THAT DELIVERS DESKTOP PERFORMANCE

Specifically designed for field-based professionals working in challenging environments, the new fully rugged Toughbook CF-31 Standard Model offers the ideal balance between the latest technology and supreme ruggedness.

Whether working in adverse weather, wet conditions, underground or where space restrictions would usually hamper productivity, the CF-31 ensures that mobile workers perform to their optimum, at all times.

- Genuine Windows® 7 Professional (Downgrade option to Genuine Windows® XP Professional Service Pack3)
- Intel® Core™ i5 520M with Intel HD graphics
- 13.1" high brightness outdoor display with circular polarizer
- Certified by MIL-STD 810G* and IP65*
- Backwards compatible with CF-30 docking stations and carmounters**
- High flexibility and connectivity through new configurations such as second LAN, camera, 3G, WIMAX or GPS

* Tested by an independent third-party lab following IEC 60529, sections 13.4, 13.6.2, 14.2.5, 14.3

** Limited functionality



TOUGHBOOK

MOBILE BUSINESS EXCELLENCE



For field professionals who face the toughest challenges

The CF-31's high performance is provided by the latest Intel® Core™ i5 processor architecture, allowing users to exploit job-specific, cutting-edge software. A 1,000cd/m2, 13.1" LED backlit display (4:3) with circular polarizer also means the CF-31 can be viewed in direct sunlight.



Mobile Computing Platform	Intel® Core™ i5 with vPro™ technology - Intel® Core™ i5-520M processor (2.4GHz, 3MB Smart Cache) - Intel® 5 series Express chipset QM57 - Intel® Centrino® Advanced-N 6200 AGN WLAN		
Operating System	Genuine Windows® 7 Professional (Downgrade option to Genuine Windows® XP Professional Service Pack3)		
RAM	2GB DDR3 SDRAM (max. 4GB)		
Graphic Chip	Intel® HD Media, UMA (Windows 7 max. 763MB, Windows XP max. 1024MB)		
Storage	160GB HDD (SATA)		
LCD	13.1" Active Matrix (TFT) colour LCD (up to 1.000cd/m2) with circular polarizer 1024 x 768 pixels (XGA); 16 million colours, concealed mode		
Cabinet	Full magnesium alloy with integrated carrying handle		
Bluetooth™	Version 2.1 + EDR; slide on/off switch		
WLAN	IEEE 802.11 a/b/g/n compliant; slide on/off switch		
LAN	IEEE 802.3 10 Base-T, IEEE 802.3u 100 Base-TX, IEEE 802.3ab 1000 Base-T		
Modem (optional)	Data: 56 kbps (V.92) FAX: 14.4 kbps		
Audio	WAVE and MIDI playback, Intel® High Definition Audio subsystem support		
Input Devices	Touchscreen, Touchpad and Keyboard with 88 keys		
Interfaces	Serial (16550A compatible)	D-sub, 9-pin	
	External display (VGA port)	Mini D-sub, 15-pin	
	HDMI		
	Headphone	Mini-jack, 3.5 DIA	
	Microphone	Mini-jack, 3.5 DIA, stereo	
	DC-In	Jack	
	USB 2.0	4x 4-pin	
	Modem (optional)	RJ-11	
	LAN (2nd LAN optional)	RJ-45	
	Firewire (IEEE1394a, optional)	1x 4-pin	
	External Antenna	1x (Dedicated 50Ω coaxial connector)	
	Port Replicator	80-pin	
	Expansion Slots	PC Card	1x Type I or 1x Type II
		Express Card	1x /34 or /54
SD/SDHC Memory Card		1x	
Optional RAM Module		1x SO-DIMM (DDR3 SDRAM)	
Power	AC Adapter	Input: 100 - 240V AC, 50Hz/60Hz; Output: 15.6V DC, 7.05A, 110W	
	Battery	Li-ion (10.65V, 8.55Ah)	
	Battery Life	Approx. 11.5h (Windows® 7 model, Mobile Mark™ 2007, LCD brightness: 60cd/m2)	
	Charging time	Approx. 4.5h (Power on), 3.5h (Power off), depends on situation	
Power Consumption	Approx. 100W (maximum when recharging)		
Power Management	Standby function, Hibernation function, ACPI BIOS		
Software	Adobe Reader, PC Information Viewer, Loupe Utility, Bluetooth™ Stack for Windows® by TOSHIBA, Wireless Switch Utility, Wireless Connection Disable Utility, Hotkey Settings, Battery Recalibration Utility, Infineon TPM Professional Package, Protector Suite DL, Aptio Setup Utility, Hard Disk Data Erase Utility, PC Diagnostic Utility, Concealed mode Utility		
Security Features	TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated hardware security lock slot, Password security (supervisor password, user password, HDD lock)		
Dimensions (WxHxD)	302mm x 73.5mm x 292mm, 11.9" x 2.9" x 11.5" (excluding protrusions)		
Weight	Approx. 3.72kg (Approx. 8.2lb.)		
Integrated Options	GPS, Fingerprint Reader, Smart Card Reader, 3G Mobile Broadband (HSPA, up to 7.2Mbps)		
Testing Standards	Water resistance test: IEC529 (JIS C0920) IP-X5*, MIL-STD 810G 506.5- I & III*		
	Dust resistance test: IEC529 (JIS C0920) IP-6X*, MIL-STD 810G 510.5- I & II*		
	Gravity drop resistance test: MIL-STD 810G 516.6 IV* (180cm drop)		
	Vibration resistance test: MIL-STD 810G 514.6- I & II*		
Accessories	Desktop Port Replicator	CF-VEB311	
	Car Mounter Kit	CF-WEB311K	
	AC Adapter	CF-AA5713A	
	Battery	CF-VZSU46AU	
	DVD Multi Drive (Multimedia Bay)	CF-VDM311U	
	Stylus Pen	CF-VNP009U	

As an ENERGY STAR® Partner, Panasonic Corporation 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 brand name and registered trademark of Panasonic Corporation. Acrobat® is a registered trademark of Adobe® Systems Incorporated. Intel, Intel Inside, the Intel Inside logo, 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. Microsoft® and Windows® are registered trademarks of Microsoft® Corporation of the United States and/or other countries. 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.

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