



TOUGHBOOK CF-31 PERFORMANCE

THE FULLY RUGGED, FULL-SIZE NOTEBOOK WITH ADVANCED GRAPHIC CAPABILITIES.

Specifically designed for field-based professionals who work in challenging environments and need advanced graphic performance, the new fully rugged Toughbook CF-31 Performance-Level Model offers the ultimate combination of graphics delivery 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 and can access critical visual data and drawings, at all times.

- Intel[®] Core[™] i5-3360M vPro Processor
- Genuine Windows[®] 7 Professional
- AMD[®] Radeon[™] HD 7750M graphics
- Vibration and shock resistant (MIL-STD 810G)*
- Water and dust resistant (IP65, MIL-STD 810G)*
- 13.1" high brightness outdoor display (up to 1.200cd/m²) with circular polarizer
- USB 3.0 SuperSpeed port

- Up to 12 hours battery life
- 3G mobile broadband optional (HSPA+, up to 21Mbps)
- Concealed Mode to switch PC into
 "silent mode"
- Backwards compatible with CF-30 docking stations and Car Mounter Kit**
- High flexibility and connectivity through new configurations such as second LAN, camera or GPS

* Tested by an independent third party lab following MIL-STD-8106 and IEC 60529, Sections 13.4, 13.6.2, 14.2.5 and 14.3 ** Limited functionality

MOBILE BUSINESS EXCELLENCE

FOR FIELD PROFESSIONALS LOOKING FOR ADDITIONAL GRAPHIC POWER.

The CF-31's high performance is provided by the 3rd generation Intel[®] Core^M i Processor with dedicated switchable graphic architecture, allowing users to exploit job-specific, cutting-edge software.









oile Computing Platform	Intel® Core™ i5-3360M vPro™ processor	
	(2.86Hz, 3MB Intel [©] Smart Cache, Intel [©] 7 series Express chipset QM77)	
rating System	Genuine Windows® 7 Professional	
1	4GB DDR3 SDRAM (max. 8GB)	
phic Chip	AMD [®] Radeon [™] HD 7750M, 512MB	
rage	500GB HDD (SATA)	
1	13.1" sunlight-viewable XGA Active Matrix (TFT) colour LCD (up to 1.200cd/m²) with circular polarizer; concealed mode	
inet	Full magnesium alloy with integrated carrying handle	
etooth™	Version 4.0 + EDR Class 1	
AN	Intel [®] Centrino [®] Advanced-N 6235 802.11 a/b/q/n compliant; slide on/off switch	
	IEEE 802.3 10 Base-T, IEEE 802.3u 100 Base-TX, IEEE 802.3ab 1000 Base-T (2nd LAN Project based)	
lem (optional)	Data: 56 kbps (V.92) FAX: 14.4 kbps	
lio	WAVE and MIDI playback, Intel [®] High Definition Audio subsystem support	
ut Devices	Resistive Touchscreen, Touchpad and Keyboard with 88 keys	
rfaces	Serial (16550A compatible):	D-sub, 9-pin
	External display (VGA port):	Mini D-sub, 15-pin
	HDMI:	x1
	Headphone:	Mini-jack, 3.5 DIA
	Microphone:	Mini-jack, 3.5 DIA, stereo
	DC Input:	Jack
	USB 2.0:	x3, 4-pin
	USB 3.0:	x1, 9-pin
	Modem (optional, project based):	RJ-11
	LAN (2nd LAN optional, project based):	RJ-45
	Firewire (IEEE1394a, optional, project based):	x1, 4-pin
	External Antenna:	x1, Dedicated 50 ohms coaxial connector
	Desktop Port Replicator:	80-pin
ansion Slots	PC Card:	x1 Type I or Type II, Allowable current 3.3V, 400mA, 5V: 400mA
	Express Card:	x1, Express Card/34 or Express Card/54
	SD/SDXC Memory Card:	x1
	RAM Module (optional):	x1, DDR3L SDRAM
ver	AC Adapter:	Input: 100 ~ 240V AC, 50Hz/60Hz; Output: 15.6V DC, 7.05A
	Battery:	Li-ion (10.65V, Typical 8550 mAh / Minimum 8100mAh)
	Battery Life:	Approx. 12h (Windows [®] 7, Mobile Mark [™] 2007, LCD brightness: 60cd/m²)
ver Management	Standby function, Hibernation function, ACPI BIOS	
urity Features	TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated hardware security lock slot, Password security (supervisor password, user password, HDD lock)	
iensions (W x H x D)	302mm x 73.5mm x 292mm / 11.9" x 2.9" x 11.5" (excluding protrusions)	
ight	Approx. 3.72kg / 8.2Lb (including battery)	
grated Options	GPS, Fingerprint Reader, Smart Card Reader, 3G Mobile Broadband (HSPA+, up to 21Mbps)	
essories	AC Adapter:	CF-AA5713A
	Battery Charger:	CF-VCBTB2W
	Battery Pack:	CF-VZSU46AU
	Car Charger:	CF-LND1224A (120W, 24V)
	Car Mounter Kit:	CF-WEB301
	Desktop Port Replicator:	CF-VEB311
	DVD Multi Drive (Multimedia Bay):	CF-VDM312U
	Stylus Pen:	CF-VNP009U
	Display Protection Film:	CF-VPF15U
	Carrying and CDS Docking Solutions:	Please visit www.toughbook.eu
ting Standards	Water resistance test:	IEC529 (JIS C0920) IP-X5*, MIL-STD 810G 506.5, III*
	Dust resistance test:	IEC529 (JIS C0920) IP-6X*, MIL-STD 810G 510.5, Level*
	Gravity drop resistance test:	MIL-STD 810G 516.6 (180cm drop)*
	Vibration resistance test:	MIL-STD 810G 514.6, category 20 & 24*

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;99%). RAM capacity calculated as follows: IMB = 1,046,050 bytes. IDUB book is a brand name and registreet trademark of Panasonic Corporation. Arcohacit® as registreent trademark of optics. Tough book is a brand name and registreet trademark of Panasonic Corporation. Arcohacit® as registreent trademark of pixels are trademark of Panasonic Corporation. Arcohacit® as registreent trademark of Panasonic Corporation. Arcohacit® as registreent 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 my offers as result of individual and local circumstances.

* Tested by an independent third party lab following MIL-STD-810G and IEC 60529, Sections 13.4, 13.6.2, 14.2.5 and 14.3

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