Panasonic ideas for life



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





intel

TOUGHBOOK

www.toughbook.eu

MOBILE BUSINESS EXCELLENCE

(intel) CORE inside inside

Protect. Manage.

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 (2.46Hz, 3MB - 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 | 1606B 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 | |
| | | IEEE 802.11 a/b/g/n compliant; slide on/off switch | |
| WLAN | | | |
| LAN | | TEEE 802.3 10 Base-T, IEEE 802.3u 100 Base-TX, IEEE 802.3ab 1000 Base-T Data: 56 khos (V 97) EAV: 16.6 khos | |
| Modem (optional) | · · · · · · · · · · · · · · · · · · · | Data: 56 kbps (V.92) FAX: 14.4 kbps WANT and MIDI playbable latal® Uish Deficition Audio subsystem august | |
| Audio | | WAVE and MIDI playback, Intel® High Definition Audio subsystem support | |
| Input Devices | Touchscreen, Touchpad and Keyboard with 88 ke | | |
| 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 | |
| Tures | Battery | Li-ion (10.65V, 8.55Ah) | |
| | Battery Life | Approx. 11.5h (Windows® 7 model, Mobile Mark™ 2007, LCD brightness: 60cd/m2) | |
| | | Approx. 11.3n (Windows 7 mode, Proble Print 2007, COD drightness, occuping) Approx. 4.5h (Power on), 3.5h (Power off), depends on situation | |
| | Charging time | | |
| D Marriage Mar | Power Consumption | Approx. 100W (maximum when recharging) | |
| Power Management | Standby function, Hibernation function, ACPI BIO | | |
| Software | Utility, Hotkey Settings, Battery Recalibration U | Adobe Reader, PC Information Viewer, Loupe Utility, Bluetooth TM Stack for Windows® by TOSHIBA, Wireless Switch Utility, Wireless Connection Disable Utility, Hotkey Settings, Battery Recalibration Utility, Infineon TPM Professional Package, Protector Suite OL, 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 | 302mm x 73.5mm x 292mm, 11.9" x 2.9" x 11.5" (excluding protrusions) | |
| Weight | Approx. 3,72kg (Approx. 8,2lb.) | Approx. 3,72kg (Approx. 8,2tb.) | |
| Integrated Options | GPS, Fingerprint Reader, Smart Card Reader, 3G | 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 8106 514.6-1 & II* | | |
| Accessories | Desktop Port Replicator | CF-VEB311 | |
| ncessures | Car Mounter Kit | CF-WEB311K | |
| | AC Adapter | CF-AA5713A | |
| | <u>·</u> | CF-VZSU46AU | |
| | Battery DVD Multi Drive (Multimodic Ray) | | |
| | 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 99,98%), EAM capacity calculated as follows: 1BB = 1,048,576 bytes: HDD capacity calculated as follows: 16B = 1,000,000,000 bytes. Toughbook is a brand name and registered trademark of Panasonic Corporation. Arcotela* 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

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

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