Panasonic recommends Windows 10 Pro.

TOUGHBOOK CF-31
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 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.

- Intel® Core™ i5-5300U vPro™ Processor
- Windows 10 Pro
- Intel® HD Graphics 5500
- Vibration and shock resistant (MIL-STD 810G)*
- Water and dust resistant (IP65, MIL-STD 810G)*
- 13.1” sunlight-viewable XGA Active Matrix (TFT) colour LCD (up to 1200 cd/m2) with circular polarizer; concealed mode
- USB 3.0 SuperSpeed port
- Up to 18 hours battery life
- 4G mobile broadband optional (LTE, up to 100Mbps)
- 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
** Limited functionality
Panasonic recommends Windows 10 Pro.

MOBILE BUSINESS EXCELLENCE

FOR FIELD PROFESSIONALS WHO FACE THE TOUGHEST CHALLENGES

The CF-31’s desktop level performance is provided by the 5th generation Intel® Core™ Processor architecture, allowing users to exploit job-specific, cutting-edge software.

Mobile Computing Platform

- Intel® Core™ i5-5300U vPro™ processor
- (2.3GHz up to 2.9GHz with Intel® Turbo Boost Technology, 3MB Cache)

Operating System

- Windows 10 Pro

Memory & Storage

- 4GB DDR3 L (max 16GB)
- HDD: 500GB HDD (SATA)
- SSD: MLC 128GB, 256GB (option)

Display

- 13.1” sunlight-viewable XGA Active Matrix (TFT) colour LCD (up to 1200 cd/m2) with circular polarizer; concealed mode

Graphic Chip

- Intel® HD Graphics 5500

Camera

- Web Camera: HD 720p, 30 fps with Digital Mic. (optional)

Expansion Slots

- ExpressCard: x1, Express Card/34 or Express Card/54
- SD/SDXC Memory Card: x1
- RAM Module: x1 DDR3L, 5000

Optical Drive

- Optional

Interface

- Serial RS-232C: x1
- VGA port: x1, 15pin
- Headphone: Mini-jack, 3.5DIA
- Microphone: Mini-jack, 3.5DIA, stereo
- DC Input: Jack
- USB 3.0: x1
- USB 2.0: x3
- LAN: RJ-45 (2nd LAN optional, project based)
- Firewire (IEEE1394a): x1, 4-pin (Optional, project based)
- External Antenna: x1 (Dedicated 50 ohms coaxial connector)
- Port Replicator: 80 pin

Connectivity

- Bluetooth®: Version 4.0 Classic mode/Low Energy mode, Class 1
- WLAN: Intel® Dual Band Wireless-AC 7265(IEEE802.11ab/g/n/ac)
- 4G Mobile Broadband: Option (Wireless modem EM7305 with GPS)

Power

- AC Adapter: Input: 100V - 240V AC, 50Hz/60Hz
- Battery: Li-Ion (10.65V, Typical 8550mAh / Minimum 8100mAh)
- Battery Life: Approx. 18h (Mobile Mark™ 2007, LCD brightness: 60cd/m2)**

Security technology

- TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated hardware security lock slot, Password security (supervisor password, user password, HDD lock)

Dimensions (W x H x D)

- 302 mm x 73.5 mm x 292 mm / 11.9” x 2.9” x 11.5” (excluding protrusions)

Weight

- Approx. 3.72kg / 8.2lb (including battery)

Rugedisation

- Water resistance test: IP-6X*
- Dust resistance test: IP-6X*
- Gravity drop resistance test: MIL STD 810G, 120cm on Plywood. Test conducted in non operating condition***
- Vibration resistance test: MIL STD 810G
- Operating temperature: -10°C to +50°C (14°F to 122°F)
- Storage temperature: -20°C to +60°C (-4°F to 140°F)

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 (Defective pixels maximum: 99.999%). 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, the Intel logo, Intel Core, Intel Core Inside, Intel vPro, Core Inside and vPro Inside are trademarks of Intel Corporation in the U.S. 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
** Measured at LCD brightness: 60cd/m². Varies depending on the usage conditions, CPU speed etc.
*** Performance test does not guarantee against damage or malfunction