



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

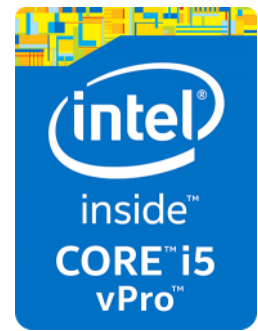
** Limited functionality



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™ i Processor architecture, allowing users to exploit job-specific, cutting-edge software.



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|---------------------------|--|--|
| 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 ExpressCard/54 |
| | SD/SDXC Memory Card: | x1 |
| | RAM Module: | x1 DDR3L SDRAM |
| Optical Drive | Optional | |
| Interface | Serial RS-232C: | x1 |
| | VGA port: | x1, 15pin |
| | HDMI: | x1 |
| | Headphone: | Mini-jack, 3.5 DIA |
| | Microphone: | Mini-jack, 3.5 DIA, 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(IEEE802.11 a/b/g/n/ac |
| | 4G Mobile Broadband: | Option (Wireless modem EM7305 with GPS |
| Power | AC Adapter: | Input: 100V - 240V AC, 50Hz/60Hz Output: 15.6V DC, 7.05A |
| | 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) | |
| Integration (options) | GPS, Fingerprint Reader, Smart Card Reader | |
| Accessories | AC Adaptor | SG: CF-AA5713AY ID/TH: CF-AA5713AC |
| | Battery Charger | CF-VCBTB2W |
| | Desktop Port Replicator | CF-VEB311U |
| | Protective Film | CF-VPF15U |
| Ruggedisation | Water resistance test: | IP-X5* |
| | 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} |

* Tested by an independent third party lab ** Measured at LCD brightness: 60 cd/m2. Varies depending on the usage conditions, CPU speed etc *** Performance test does not guarantee against damage or malfunction

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.

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