Panasonic recommends Windows 8.1 Pro

FULLY RUGGED MOBILE PC

Panasonic's Windows 8.1 Pro® CF-31 Toughbook offers the highest performance in its class along with the world’s most rugged design. With drop shock protection and a MIL-STD-810G and IP65 certification, it’s the undisputed leader in the fully rugged category. Its 5th generation Intel® Core™ i5 processor packs a punch to deliver desktop-class performance and amazing battery life, with up to 27 hours continuous usage with optional media bay 2nd battery, and also incorporates a 13.1-inch 1200 nit touchscreen with Panasonic CircuLumin™ technology.

- Intel® Core™ i5-5300U vPro™ Processor
- Windows 8.1 Professional
- Intel HD 5000 Graphics
- 13.1-inch XGA (1024 x 768) 1200 nit sunlight-viewable Touchscreen LED Display
- IP65 dust and water resistant*
- Withstands drops from a height of 180cm*
- MIL-STD 810-G Vibration and Shock Resistant
- Robust magnesium alloy casing with integrated carrying handle and shock-protected HDD
- Battery life up to 18 hours, or up to 27 hours with 2nd battery (mobile mark 2007)
- LAN, Firewire, PC Card slot, Express card slot, SDXC card slot, USB 3.0 x1, USB 2.0 x3, serial, HDMI and VGA
- Optional integrated 4G/LTE and dedicated GPS
- Built-in security chip (TPM v1.2) for data protection

* Carried out in Panasonic technical research lab. Test conducted in non-operating condition.

TOUGHBOOK CF-31 MK5
HIGH PERFORMANCE FULLY RUGGED MOBILE PC
Panasonic recommends Windows 8.1 Pro

TOUGHPAD CF-31MK5
FULLY RUGGED MOBILE PC

With unrivalled durability and world class heritage, the CF-31 is one of the most rugged and reliable notebook PCs in the field. The rugged ratings for Fully Rugged Toughbook will change the way you view mobile PCs. Drop, shock, moisture, dust, temperature, pressure and vibration resistant technology has been incorporated to exceed MIL-STD-810G and IP65 standards. With world leading wireless connectivity, the CF-31 is perfect for mobile field workers where failure is not an option.

Mobile Computing Platform
Intel® Core™ i5-5300U vPro™ Processor
2.3GHz with Intel® Turbo Boost up to 2.9GHz, 3MB Cache

Operating System
Windows 8.1 Pro 64-bit*

RAM
4GB DDR3L SDRAM (max 8GB + 8GB)

Web Camera (optional)*
HD 720p 30fps with digital mic

Storage
500 GB SATA HDD, 5400rpm

Display
13.1" XGA 1024 x 768 Touchscreen Display
Up to 1200cd/m² brightness

Bluetooth®
Version 4.0 + EDR Class 1

WiLAN
Intel® Dual Band Wireless AC 7265 IEEE 802.11 a/b/g/n/ac

4G/LTE Mobile Broadband (optional)**
Optional Sierra Wireless EM7305

Sound
WAVE and MIDI playback, Intel® High Definition Audio subsystem support

Interface Standard
LAN (Rj45 1000M/100M/10Mbits) USB 3.0: x1, USB 2.0: x3
Firewire (IEEE 1394a) Serial (D-sub: 9-pin)
PC Card Slot HDMI
Express Card Slot VGA (Mini D-sub: 15-pin)
SDXC Memory Card Slot Headphone Output (3.5mm)
Docking connector (dedicated 80-pin) Microphone Input (3.5mm)

Interface Options**
2nd Bay Battery (CF-VZSU1431U) or DVD Multi Drive (CF-VDM312U)
GPS (CF-WGP315) - WAAS/GLONASS Support
Dual Pass Through (CF-WEW31005) Emissive Backlit Keyboard (CF-WKB3138M)
Rubber Backlit Keyboard (CF-WKB3118M) Web Camera (CF-WCM314)
2nd LAN (CF-WLN315) Smart Card Reader (CF-WSC315)
Fingerprint Reader (CF-WFP315)

Power
Standard Battery: Li-Ion 10.65V, 8550Ah (typical) - CF-VZSU46AU
Operating Time: Up to 18 hours , or 27 hours with optional 2nd bay battery
Charging Time: 3.5 hours, or 7 hours with standard and optional 2nd bay battery

Security Features
TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated Kensington cable security lock slot.

Physical Dimensions
302mm (W) x 292mm (H) x 73.5mm (D)

Weight
Approx 3.72kg

Operating Temperature
-10° - 50° C

Accessories
AC Adapter: CF-AA5713AM DVD Multi Drive: CF-VDM312U
Standard Battery: CF-VZSU46AU 13.1" Screen Protective Film: CF-VFP15U
2nd Bay Battery: CF-VZSU431U Touchscreen Stylus: CF-VNP009U
Battery Charger: CF-VCB7B2W Tether: CF-VNT002U
Desktop Port Replicator: CF-VEB311U RAM (Trustin 4GB DDR3L): CF-WMBA1304G
Car Mounter: CF-VEB301W RAM (Trustin 8GB DDR3L): CF-WMBA1308G

Ruggedness
IP65 dust and water resistant*** Gravity drop resistance test: 180cm***
Shock mounted HDD with floating connectors Magnesium Alloy Chassis
MIL-STD-810G certified (180cm drop, shock, vibration, rain, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, humidity)***
MIL-STD-461F certified***