



CF-31

FULLY RUGGED LAPTOP

FEATURES INCLUDE:

- 13.1" XGA (1024 x 768) Touch Display
- Intel Core i5-5300U vPro CPU
- High Flexibility & Connectivity
- MIL-STD-810G & IP65 Rated
- Up to 27 Hours Battery Life*
- Windows 7 / 10 Professional OS



POWERFUL, RUGGED & WIRELESS

Panasonic presents the Toughbook® 31, the reliable laptop offering the world's most rugged design. With drop-shock protection and a MIL-STD-810G certification, it's the undisputed leader in the fully rugged category.

Its Intel® Core™ i5 processor packs a punch and amazing battery life—18 hours, or 27 hours with optional media bay 2nd battery. Combine six generations of delivering rugged performance plus 16 years of consistent docking compatibility, and you have a computer that will go the distance with you anytime, anywhere.

TOUGHEST JUST GOT TOUGHER

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.

SPECIFICATION

CPU Options	Intel Core i5-5300U vPro CPU
Memory	4GB DDR3L-1600MHz SDRAM Memory Installed Max Memory Supported: 16GB
Storage	500GB HDD With Heater Optional: 256GB / 512GB SSD With Heater Optional: OPAL Encrypted SSD With Heater
I/O Ports	1 x USB 3.0 3 x USB 2.0 1 x LAN 1 x HDMI 1 x VGA 1 x Audio Input 1 x Audio Output 1 x Serial Optional: IEEE 1394a Firewire Optional: 720p Webcam With Mic
Security Features	TPM v1.2 (TPM v2.0 Available) NIST BIOS Compliant Persistence® Technology By Absolute Embedded In BIOS Kensington Cable Lock Slot Optional: Fingerprint Reader Optional: Insertable SmartCard CAC Reader
Expansion	Optional: DVD Super Multi Drive or Media Bay 2nd Battery 1 x SD/SDXC Memory Card Slot 1 x Mini SIM Slot
Communication	Optional: 4G LTE multi carrier mobile broadband with satellite GPS Optional: Dedicated GPS (u-blox NEO-M8N) User-selectable Antenna Pass-through (Dual Standard, Single Optional) Intel® Dual Band Wireless-AC 7265 Wi-Fi 802.11a/b/g/n/ac Bluetooth® v4.0 + EDR (Class 1) Slide On / Off Switch
Power	AC Adapter: - Input: 100V - 240V AC, 50Hz/60Hz - Output: 16V DC, 4.06A
Battery	Battery: Li-Ion (10.65V / 8100mAh) Battery Operation: 18 Hours (27 Hours With 2nd Battery) Operating Time: 3.5 Hours On / Off (7 Hours With 2nd Battery)
Optional Accessories	AC Adapter 100W (3-prong): CF-AA5713AM Standard Long Life Battery Pack: CF-VZSU46AU Media Bay 2nd Battery: CF-VZSU1431U Battery Charger: CF-VCBTB2W LIND 3-Bay Battery Charger: PACH329-1857-P LIND Car Charger: 120W CF-LNDDC120 LIND Solar Charge System: PASC1580-4464 ToughMate Backpack: TBCBPK-P ToughMate Sling 31 Case: TBC31CASE-P ToughMate Shoulder Strap: TBCDLXSSKIT-P DVD Super MULTI Drive: CF-VDM312U Memory Card: 4GB CF-BAZ1504 Memory Card: 8GB CF-BAZ1608 Desktop Dock: CF-VEB311U Touchscreen Stylus: CF-VNP009U Tether: CF-VNT002U 13.1" LCD Protector Film: CF-VPF15U

Display	13.1" XGA Anti-reflective / Anti-glare LCD
Resolution	1024 x 768
Brightness	2-1200 nits
Touchscreen	Resistive Touchscreen
Sound	Intel® High Definition Audio Compliant Integrated Speaker Keyboard Volume & Mute Controls
Temperature	TBC
Rugged Feature	MIL-STD-810G Certified MIL-STD-461F Certified IP65 Certified Sealed All-weather Design Optional: Hazardous Location Class I Division 2 Groups ABCD Certified Model Full Magnesium Alloy Case With Handle Storage Drive Heater Shock-mounted Caged Storage Drive Removable Quick-release Battery & Storage Drive Reinforced Locking Port Covers Preinstalled Replaceable Screen Film For LCD Protection ANSI/ISA 2.12.01-2013 – Optional: Class I Division 2, Groups ABCD Certified Model
Dimensions (W x D x H)	11.9" x 11.5" x 2.9"
Weight	7.9 lbs. (8.2 lbs. With Optional Media Bay 2nd Battery)
Operating System	Windows 7 Professional Windows 10 Professional

