Panasonic recommends Windows 10 Pro.

Panasonic
BUSINESS

TOUGHBOOK CF-19

THE FULLY RUGGED CONVERTIBLE TOUGHBOOK.

Featuring a revolutionary LCD screen that transforms from a high-performance notebook to a fully portable tablet PC, the CF-19 Windows 7 embedded convertible tablet PC is reliable, durable and balanced lightweight at just 2.3kg. The optimized transflective plus display technology with low reflection allows for perfect visibility even in direct sunlight environments (up to 6.500cd/m^2 reflective brightness, depending on light conditions).

The LCD itself is protected by a durable scratch-resistant magnesium alloy case, mounted to the base cabinet with a reinforced 180 degree rotatable hinge. Data is secured on the hard disk drive - enclosed in a shock-absorbing damper that sits inside an aluminium case. A double waterproof structure ensures a tight, durable seal that complies with IP65* water and dust-proofing standards and a special HDD-heater counters any adverse temperatures. These striking features ensure that you can rely on the CF-19, even in extreme conditions.

- Intel® Core™ i5-3610ME vPro processor
- Windows 7 embedded
- Intel HD 4000 graphics
- Vibration and shock resistant (MIL-STD 810G)*
- Water and dust resistant (IP65, MIL-STD 810G)*
- Balanced lightweight at just 2.3kg
- Extremely bright 10.1" transflective plus LCD with Touchscreen or Dual Touch (up to 6.500cd/m^2 reflective brightness, depending on light conditions)
- Ambient light sensor for advanced power management
- USB 3.0 SuperSpeed port
- Long battery life of up to 10 hours
- 4G mobile broadband optional (LTE, up to 100Mbps)
- Panasonic dashboard management software
- Concealed Mode to switch PC into "silent mode"

* Tested by an independent third party lab following MIL-STD-810G and IEC 60529, Sections 13.4, 13.6.2, 14.2.5 and 14.3.

intel inside™ CORE™ i5 vPro™

TOUGHBOOK

www.toughbook.eu

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MOBILE BUSINESS EXCELLENCE

The 3rd generation, Windows 7 embedded, Intel® Core™ i5 with vPro™ technology and standard Intel® Core™ i5-3610ME processor delivers high performance and efficient energy consumption. Embedded WLAN and optional 4G Mobile Broadband capabilities enable wireless data transfer for business communication. The high-power battery allows for a running time of up to 10 hours. The CF-19 is the marketing-leading, rotating screen, convertible notebook, which sets the benchmark in ruggedness.

Mobile Computing Platform	Intel® Core™ i5-3610ME vPro™ processor	
	(2.7GHz, 3MB Intel® Smart Cache, Intel® 7 series Express chipset QM77)	
Operating System	Windows 7 embedded	
RAM	4 GB, DDR3 SDRAM (max. 8 GB)	
Graphic Chip	Intel® HD Graphics 4000, UMA (Windows® 7 64bit max 1696MB, 32bit max 1557MB)	
Storage	500GB HDD (SATA, easy accessible, shock resistant - withstands 180cm* drop)	
LCD	10.1" sunlight-viewable transflective plus XGA Active Matrix (TFT) colour LCD with circular polarizer (up to 500cd/m² transmissive and	
	6.500cd/m² reflective brightness, depending on light conditions) and ambient light sensor; Concealed Mode	
Cabinet	Full magnesium alloy with handstrap	
Bluetooth™	Version 4.0 + EDR Class 1	
WLAN	Intel® Centrino® Advanced-N 6235 802.11 a/b/g/n compliant; slide on/off switch	
LAN	1000BASE-T/100BASE-TX/10Base-T	
Sound	Intel® High-Definition audio compliant	
	Monaural speaker (integrated in display cabinet)	
Input Devices	Resistive Touchscreen (1 finger) or resistive Dual Touch (5 finger & Digitizer)	
	Touchpad and Keyboard	
Indicators	9 LEDs (Power, Battery, HDD, Caps Lock, Scroll Lock, Num Lock, SD Card, WWAN, Wireless Data Transfer)	
Interfaces	Serial (16550A compatible)	Dsub, 9-pin
	External display (VGA port)	Mini D-sub, 15-pin
	Headphone	Mini-jack, 3.5 DIA, stereo
	Microphone	Mini-jack, 3.5 DIA, stereo
	DC In	Jack
	USB 2.0	x1, 4-pin
	USB 3.0	x1, 9-pin
	LAN	RJ-45
	Firewire (IEEE1394a):	x1, 4-pin
	External Antenna:	x2 (Dedicated 50 ohms coaxial connector)
	Port Replicator:	100-pin
Expansion Slots	PC Card:	x1 Type II (3.3V: 400mA, 5V: 400mA)
	Express Card:	x1 ExpressCard/34 or ExpressCard/54
	SD/SDXC Memory Card:	x1
	RAM Module:	x1 DDR3L
Power	AC Adapter:	Input: 100 – 240V AC, 50Hz/60Hz; Output: 16V DC, 5A
	Battery:	Li-ion 10.65V, 5.7Ah (typical), 5.4Ah (minimum)
	Battery Life:	Approx. 10 hours (Mobile Mark™ 2007, 60cd/m²)
Power Management	Standby function, Hibernation function, ACPI BIOS	
Security Features	TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated hardware security lock slot, Password security	
Dimensions (WxHxD)	271mm x 49mm x 216mm / 10.7" x 1.93" x 8.5" (excluding protrusions)	
Weight	Approx. 2.3kg / 5.0lb (including battery)	
Integrated Options	GPS, Fingerprint Reader, Smart Card Reader, 4G Mobile Broadband (LTE, up to 100Mbps), Solid State Disk, Bottom 5MP camera with dual LED light (Project based)	
Accessories	AC Adapter:	CF-AA6503A
	Battery Charger:	CF-VCBTB2W
	Battery Pack:	CF-VZSU48U
	Car-Charger:	CF-AAV1601W (Type A, 60W,12V/24V)
		CF-LND8024FD (EIAJ & Type A both 80W, 12-32V)
	Car-Mount:	CF-WEB194B
	Port-Replicator:	CF-VEB191AU
	Carrying and CDS Docking Solutions:	Please visit www.toughbook.eu
Testing Standards	Water resistance test:	IEC529 (JIS C0920) IPX5*, MIL-STD 810G 506.5, III*
	Dust resistance test:	IEC529 (JIS C0920) IP6X*, MIL-STD 810G 510.5, Level*
	Gravity drop resistance test:	MIL-STD 810G 516.6, (180cm* drop)
	Vibration resistance test:	MIL-STD 810G 514.6, category 20 & 24*

* Tested by an independent third party lab following MIL-STD-810G and IEC 60529, Sections 13.4, 13.6.2, 14.2.5 and 14.3

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