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TOUGHBOOK CF-33 2-IN-1 DETACHABLE
WINDOWS 10 PRO 12'' FULLY RUGGED NOTEBOOK

TOUGHBOOK CF-33 2-IN-1 DETACHABLE, the 12.0'' fully rugged notebook with hot swappable twin batteries, detachable keyboard with optional backlit keys, and highly configurable capabilities brings unrivalled flexibility and performance for mobile business computing. Thanks to the detachable keyboard design and 6 usage modes, the TOUGHBOOK CF-33 2-IN-1 DETACHABLE offers the best of all worlds for mobile workers. Target industries for the device include field service workers, maintenance and service technicians in utilities and telecommunications, as well as government agencies, defence, the police and other emergency services.

- Intel® Core™ i5-7300U vPro™ Processor
- Windows 10 Pro
- Next generation Dual-touch (with digitizer) display with 3:2 aspect ratio
- 12.0'' QHD (2160 x 1440) anti-reflective high brightness outdoor display (up tp 1200cd/m^2)
- Capactive 10 finger multi-touchscreen with glove and rain modes
- Digitiser pen embedded in the tablet part
- Detachable keyboard with various enterprise ports and backlit* keys

- Fully rugged design with Water and Dust resistance (IP65)**
- User exchangeable and hot-swappable twin batteries
- Up to 10 hours (TBD) battery life with standard twin batteries (MobileMark™ 2014)
- Up tp 20 hours (TBD) battery life with extended* twin batteries (MobileMark™ 2014)
- Flexible configuration port*** and business expansion module***
- Vehicle mount* available for both notebook and tablet

TOUGHBOOK

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Panasonic recommends Windows 10 Pro.

Yesterday's Legend, Today's Leader

TECHNICAL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

An evolution of the best-selling Panasonic Toughbook CF-31 notebook, this latest detachable device is one for the first notebooks powered by the latest 7th Generation Intel® CoreTM i5-7300U vPro TM processor, delivering incredible performance, and is shipping with Windows 10 Pro. It also has a rich set of business interfaces with additonal customisable options to meet a worker's needs. With its hot swappable twin batteries and outdoor viewing, glove-enabled touchscreen, it's a versatile yet tough technology companion for mobile workers.

Mobile Computing Platform	Intel® Core™ i5-7300U vPro™ Processor	
	(2.6 GHz up to 3.5 GHz with Intel® Turbo Boost Technology, 3MB Cache)	
Operating System	Windows 10 Pro 64 bit	
Memory & Storage	8GB on board Max 16GB	
	SSD:256 GB, max 512GB	
Display	12.0" QHD (2160 x 1440 dots), Aspect ratio 3:2 Anti-Reflection	
	Graphic Chip:	Intel® HD Graphics 620 (Built-in CPU)
Camera	Front(Tablet):	1920 x 1080 dots, 30fps(video)/1920 x 1080 dots(Still), Dual Microphone, with IR for Windows Hello
	Rear(Tablet):	2048 x 1536 dots, 15fps(video)/3264 x 2448 dots(Still), with LED flash
Expansion Slots	Tablet:	microSDXC card x1
	Keyboard base:	SDXC card x1
Interface	USB 3.0	x3 (x1 Tablet, x2 Keyboard Base)
	USB 2.0	x1 (Keyboard Base)
	HDMI	x2 (x1 Tablet, x2 Keyboard Base)
	Headset	x1 (Tablet)
	nano SIM	x1 (Tablet)
	Dual Pass Through Antenna	x2 (x1 Tablet, x1 Keyboard Base)
	Serial:	x1 (Keyboard Base)
	VGA port	x1 (Keyboard Base)
	LAN:	IEEE 802.3 10Base-T / IEEE 802.3u 100Base-TX / IEEE 802.3ab 1000Base-T
	Tablet option:	True serial x1 or BCR or 2nd USB 2.0 x1
		Fingerprint reader (200 x 400 pixels, 508 DPI) or Smartcard Reader or Contactless Smart Card reader ***
		Dedicated GPS(u blox NEO-M8N) and WWAN
Connectivity	Intel® Dual band Wireless-AC 8265 (a/b/g/n/ac)	
	Bluetooth™:	Version 4.1 + Classic mode/low energy mode, Class 1
	4G Mobile Broadband:	Option (Wireless modem EM7305 with GPS)
	LAN:	IEEE 802.3 10 Base-T/IEEE 802.3u 100 Base-TX/IEEE 802.3ab 1000 Base-TX
Power	AC Adapter:	Input: 100V ~ 240V, 50Hz/60Hz; Output: 15.6V, 4.06A
	Battery pack	(Standard) Li-ion 11.1V, 1990 mAh x 2
		(Large) Li-ion 10.8V, 4120 mAh x2 (option)
	Operating time	(Standard) Tablet only: approx 11 hours with keyboard base: approx 10 hours
		(Large) Tablet only: approx 22 hours with keyboard base: approx 20 hours
	Charging time	(Standard) Power ON: approx 3 hours Power OFF: approx 2.5 hours
		(Large) Power ON: approx 3 hours Power OFF: approx 2.5 hours
Security Features	Trusted platform module (TPM) [TCG V2.0 compliant]	
Dimensions (W x H x D)	Tablet only:	308.0 x 243.6 x 21.6mm {12.1" x 9.6" x 0.9"}
	With Keyboard base:	313.0 x 288.4 x 46.1mm {12.3" x 11.4" x 1.8"}
	With Battery pack(L) x 2:	Tablet only: 308.0 x 243.6 x 32.1mm {12.1" x 9.6" x 1.3"}
	With Battery pack(L) x 2:	with keyboard base: 313.0 x 288.4 x 56.6mm {12.3" x 11.4" x 2.2"}
Weight	Tablet only:	Approx. 1.527 kg {3.4 lb.}
	With Keyboard base:	Approx. 2.761 kg {6.1 lb.}
	With Battery pack(L) x 2:	Tablet only: Approx. 1.882 kg {4.2 lb.}
	With Battery pack(L) x 2:	With keyboard base: Approx. 3.116 kg {6.9 lb.}
Options and other accessory	Port Replicator	TBC
	Vehicle Dock Adaptor (without slim keyboard)	TBC
	Hand Strap	TBC
	Shoulder Belt	TBC
	Rotation Strap	TBC
Ruggedisation	Water resistance test:	IP-X5**
	Dust resistance test:	IP-6X**
	Gravity drop resistance test:	MIL STD 810G, 120cm{4 feet} drop for Laptop and Tablet on Plywood. 26 sided/drop on plywood. Test conducted in non operating condition*
	Operating temperature:	-10°C to +50°C {14°F to 122°F}
	Storage temperature:	-20°C to +60°C {-4°F to 140°F}
	Vibration resistance test:	MIL STD 810G

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