Panasonic
BUSINESS

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
  Intel® Core™ i7-7600U vPro™ Processor

- Windows 10 Pro

- Next generation Dual-touch (with digitizer) display with 3:2 aspect ratio

- 12.0" QHD (2160 ×1440) anti-reflective high brightness outdoor display (up to 1200cd/m2)

- Capacitive 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 battery life with standard twin batteries

  (MobileMark™ 2014)

- Up to 20 hours battery life with extended* twin batteries

  (MobileMark™ 2014)

- Flexible configuration port*** and business expansion module***

- Vehicle mount* available for both notebook and tablet

TOUGHBOOK

intel
CORE i5
vPro
7th Gen

www.panasonictoughbook.asia

Yesterday's Legend, Today's Leader.

TOUGH YET VERSATILE

An evolution of the best-selling Panasonic Toughbook CF-31 notebook, this latest detachable device is one of the first notebooks powered by the latest 7th Generation Intel® CoreTM i5-7300U vPro™ processor & i7-7600U vPro™ processor, delivering incredible performance, and is shipping with Windows 10 Pro. It also has a rich set of business interfaces with additional 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 (3 MB cache, 2.6 GHz up to 3.5 GHz with Intel® Turbo Boost Technology)	
	Intel® Core™ i7-7600U vPro™ Processor (4 MB* cache, 2.8 GHz up to 3.9 GHz with Intel® Turbo Boost Technology)	
Operating System	Windows 10 Pro	
RAM & Storage	8GB RAM & 256 GB Solid State Drive (Serial ATA) / 16GB RAM & 512 GB Solid State Drive (Serial ATA)	
Graphic Chip	Intel® HD Graphics 620	
LCD	12.0" QHD (2160 ×1440 pixels) anti-reflective sunlight-viewable IPS colour LCD (up to 1200cd/m^2 brightness), 3:2 Aspect ratio	
Touchscreen	Dual touch 10 finger capacitive multi-touchscreen with IP55 Digitiser as standard	
Bluetooth®	Version 4.1 Class 1	
WLAN	Intel® Dual Band Wireless-AC 8265	
Mobile Broadband*	4G LTE (Sierra Wireless™ EM7305), Nano SIM in the tablet	
Dedicated GPS*	U-blox NEO-M8N with GPS/GLONASS/SBAS Support	
LAN	1000BASE-T / 100BASE-TX / 10Base-T	
Sound	WAVE and MIDI playback, Intel® High Definition Audio subsystem support, Microphone arrays (built-in)	
Camera	Front:	2 MP
	Rear:	8 MP with autofocus and LED flash
Interface	USB 3.0:	x3 (x2 Keyboard, x1 Tablet)
	USB 2.0:	x1 (Keyboard), x1*** (Tablet configuration Port)
	LAN (Gigabit):	x2 RJ-45 (x1 Keyboard, x1 Tablet)
	Serial port:	x1 USB based (Keyboard), x1 True serial*** (Tablet configuration Port)
	HDMI:	x2 (x1 Tablet, x1 Keyboard)
	VGA:	x1 (Keyboard)
	Headset:	x1 (Tablet)
	Port replicator connector:	x2 (x1 Tablet, x1 Keyboard)
	Dual external antenna connector:	x2 (x1 Tablet, x1 Keyboard)
Expansion slots	Micro SD/SDXC memory card:	x1 micro SDXC (Tablet), x1 SDXC (Keyboard)
Project based options*	Tablet configuration port***	True serial port or 2D Barcode reader or 2nd USB 2.0
	Tablet business expansion module***	Smartcard reader or Contactless smartcard reader or Fingerprint reader
Power	AC adapter:	Input: 100 V – 240 V AC, 50 Hz/ 60 Hz, Output: 15.6 V DC, 4.06A
	Battery:	Li-ion 11.1 V, 2x 1,990 mAh (Standard battery)
		Li-ion 10.8 V, 2x 4120 mAh (Extended battery*)
	Operating Time:	10 hours with standard twin batteries (MobileMark™ 2014)
		20 hours with extended twin batteries* (MobileMark™ 2014)
Security Features	TPM (Trusted Platform Module, TCG V2.0 compliant), Integrated hardware security lock slot, Password security (supervisor password, user password, SSD lock)	
Physical Dimensions (W x D x H)	With standard twin batteries (3+3 cell): 313.0 x 288.4 x 46.1 mm {12.3" x 11.4" x 1.8"}	
	With extended twin batteries (6+6 cell)*: 313.0 x 288.4 x 56.6mm {12.3" x 11.4" x 2.2"}	
Weight	With standard twin batteries (3+3 cell): Approx. 2.761 kg {6.1 lb.}	
	With extended twin batteries (6+6 cell)*: Approx. 3.116 kg {6.9 lb.}	
Standard configuration	CF-33mk1, 8GB RAM, 256GB SSD, empty configuration port, standard twin batteries (3+3 cell)	
Included in box	CF-33mk1 Tablet with detachable keyboard, twin 3cell batteries, digitizer pen, tether and AC adapter	
Accessories	AC Adapter	CF-AA5713A
	Desktop port replicator	CF-VEB331U
	Standard battery pack (3 cell)	CF-VZSU1AW
	Extended battery pack (6 cell)	CF-VZSU1BW
	4 bay battery charger	CF-VCB331M
	Digitizer Stylus pen	CF-VNP023U
Testing Standards	Water resistance test:	IP-X5**
	Dust resistance test:	IP-6X**
	Gravity drop resistance test:	150cm (5 ft) **
	Operating temperature:	–29°C to +63°C {–20°F to 145°F}**
	Storage temperature:	–51°C to +71°C {–60°F to 160°F}**

CF-33mk1: 27.02.2017

*Optional

** 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

***One option exclusively possible in configuration port / business expansion module

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