



Windows 11 Pro Fully Rugged 2-in-1 Detachable Laptop & Tablet with 12.0" Outdoor Display

TOUGHBOOK 33 Detachable

The TOUGHBOOK 33 2-in-1 Detachable Notebook is highly configurable, bringing unrivalled flexibility and performance for mobile business computing professionals. Thanks to the detachable keyboard design and 6 usage modes, the TOUGHBOOK 33 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.

Key Features

Intel® Core™ i5-10310U vPro™ Processor (optional Intel® Core™ i7-10810U vPro™**)

Windows 11 Pro

12.0" Active Matrix (TFT) colour LCD 2160 x 1440 (QHD) LCD with sunlight-viewable glove-enabled capacitive touchscreen (up to 1.200cd/m²), IP55 Digitiser

IP65 water and dust resistant, MIL-STD 810H certified***

Long battery life of up to 10 hours with hot swap





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<https://ap.connect.panasonic.com/vn/en/products/toughbook/toughbook-33-detachable>

Mobile Computing Platform	Intel® Core™ i5-10310U vPro™ Processor (optional Intel® Core™ i7-10810U vPro™*)
Operating System	Windows 11 Pro
RAM	Built-in 8GB RAM or built-in 16GB* RAM
Graphic Chip	Intel® UHD Graphics
Storage	512GB OPAL NVMe SSD (with heater)
LCD	12.0" Active Matrix (TFT) colour LCD 2160 x 1440 (QHD) LCD with sunlight-viewable glove-enabled capacitive touchscreen (up to 1.200cd/m ²), IP55 Digitiser
Bluetooth™	Version 5.1 Class 1
Wireless LAN	Intel® WI-Fi 6 AX201 (up to 2.4 Gbps)
Mobile Broadband*	4G LTE, supports 3G
GPS*	U-Blox NEO-M8N
LAN	x1 (Tablet) x1 (Keyboard)
Sound	WAVE and MIDI playback, Intel® High Definition Audio subsystem support
Security	TPM (TCG V2.0 compliant) Password security (supervisor password, user password, hard disc lock) Integrated hardware security lock slot
Front Camera	2 MP
Rear Camera	8MP with Autofocus and LED flash
SD/SDXC Memory Card	x1 (Keyboard)
Configuration port (Tablet)**	Serial, 2D Barcode Reader, 2nd USB 2.0
USB 3.1	x3 (x1 Tablet, x2 Keyboard)
USB 3.1 type C PD	x1
USB 2.0	x1 optional (Tablet)** x1 (Keyboard)
HDMI	x1 (Tablet) x1 (Keyboard)
VGA	x1 (Keyboard)
Native Serial Port	x1 optional (Tablet)** x1 (Keyboard)
Headset	x1 (Tablet) x1 (Keyboard)
DC In	x2 (Tablet + Keyboard)
Port Replicator	x1 (Keyboard)
Dual Antenna Connector	x1 (Keyboard)
Business Expansion Module**	Smart Card Reader, NFC, Fingerprint Reader
AC Adapter	Input: 100 V - 240 V AC, 50 Hz/ 60 Hz, Output: 15.6 V DC, 4.06A
Battery	Standard: x2 Li-Ion (3 cell, 22Whr)
Battery Life	Standard: Approx. 10 hours (Mobile Mark™ 2014)
Power Management	Hot swap, Standby function, ACPI BIOS
Dimensions (WxHxD)	Tablet + Keyboard: 313.0mm x 288.4mm x 46.1 mm Tablet only: 308.0mm x 243.6mm x 21.6mm
Weight	Tablet + Keyboard: 2.79kg (with standard battery) Tablet only: 1.56kg (with standard battery)
Drop Resistance	MIL-STD810H, 150cm*** (in Tablet mode) / 150cm (in Clamshell mode)
Dust Resistance	IP6x
Water Resistance	IPx5
Operating Temperature	MIL-STD810H, -29°C to +63°C***
Standard Configuration	CF-33mk2, 8GB RAM, 512GB SSD, 2x standard battery pack, IP55 digitiser pen
Included in the box	Power Supply, Power Cord, Display cleaning cloth and User Manual
Footnote	*Optional **One option exclusive possible in configuration port / business expansion module ***Tested by an independent third party lab following MIL-STD810H Method 516.8 Procedure IV for transit drop test and Method 501.7 and 502.7 Procedure II for operation temperature test. May differ depending on models and options.