



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

TOUGHBOOK 33 mk3 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

Windows 11 Pro

Intel® Core™ i5-1245U vPro™ Processor / 12 MB cache, 1.6 GHz up to 4.4 GHz with Intel® Turbo Boost Technology

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

Fully rugged design with Water and dust resistance (IP65)***

Up to 10 hours battery life with standard twin batteries (MobileMark™ 2014) Up to 20 hours battery life with extended twin batteries (MobileMark™ 2014)



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<https://ap.connect.panasonic.com/vn/en/products/toughbook/toughbook-33-mk3-detachable>

Operating System	Windows 11 Pro
Mobile Computing Platform	Intel® Core™ i5-1245 vPro™ Processor/ 12 MB cache, 1.6 GHz up to 4.4 GHz with Intel® Turbo Boost Technology
RAM	16GB (max. 32GB) DDR4
Graphic Chip	Intel® Iris® XE Graphics
Storage	512GB OPAL NVMe SSD (1TB optional) [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/m²), IP55 Digitiser
Bluetooth™	5.1 + EDR Class 1
Wireless LAN	Intel® Wi-Fi6 AX201
Mobile Broadband*	4G LTE, supports 3G
GPS*	U-Blox NEO-M8N
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 with IR / privacy shutter (Windows Hello compliant)
SD/SDXC Memory Card	x1 (Keyboard)
Configuration port (Tablet)**	Serial, 2D Barcode Reader, 2nd USB 2.0
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)
	Extended: x2 Li-Ion (6 cell, 45 Whr) optional
Battery Life	Standard: Approx. 10 hours (Mobile Mark™ 2014)
	Extended: Approx. 20 hours (Mobile Mark™ 2014)
Power Management	Hot swap, Standby function, ACPI BIOS
Dimensions (WxHxD)	Standard Battery: 313.0 mm x 288.4 mm x 46.1 mm / 12.3" x 11.4" x 1.8"
	Extended Battery: 313.0 mm x 288.4 mm x 56.6 mm / 12.3" x 11.4" x 2.2"
Weight	Standard Battery: 2.78kg / 6.2lb
	Extended Battery: 3.14kg / 6.9lb
Drop Resistance	MIL-STD 810G, 150cm
Water Resistance	EC529 (JIS C0920) IPx5
Operating Temperature	MIL-STD 810G, -29 °C to 60 °C ***
Standard Configuration	CF-33mk3, 16GB RAM, 512GB SSD, 2x standard battery pack, IP55 digitiser pen
Dust Resistance	IEC529 (JIS C0920) IP6x
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.
USB 3.1	x3 (x1 Tablet, x2 Keyboard)
USB 3.1 type C PD	x1

Rear Camera	8mpixel with autofocus and LED flash
LAN	x1 (Tablet) x1 (Keyboard)