



**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)



TOUGHBOOK 33 mk3 Detachable

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

Model	CF-33mk3, 16GB RAM, 512GB SSD, 2x standard battery pack, IP55 digitiser
OS (Operating System)	Windows 11 Pro
CPU (Mobile Computing Platform) -> Processor	Intel® Core™ i5-1245 vPro™ Processor/ 12 MB cache, 1.6 GHz up to 4.4 GHz with Intel® Turbo Boost Technology
CPU (Mobile Computing Platform) -> Graphics chips	Intel® Iris® XE Graphics
Memory (RAM) (RAM Standard / Maximum) (Main memory)	16GB (max. 32GB) DDR4
Storage	512GB OPAL NVMe SSD (1TB optional) [with heater]
Display & Graphics	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
Wireless	Mobile Broadband:4G LTE, supports 3G, GPS*:U-Blox NEO-M8N, Wi-Fi:Intel® Wi-Fi6 AX201, Bluetooth:5.1 + EDR Class 1
I/O Ports (Interface)	USB 2.0: tablet x1 optional (Tablet)** / detachable x1, USB 3.1: tablet x1 / detachable x3, USB 3.1 type C PD:x1, SD Card Reader (Micro SD-XC) :x1 (Keyboard), HDMI:x1, VGA:tablet - / detachable x1, LAN:x1 (Tablet) x1 (Keyboard), Configuration port (Tablet)**:Serial, 2D Barcode Reader, 2nd USB 2.0, Native Serial Port:x1 optional (Tablet)** x1 (Keyboard) Dual Antenna Connector:tablet - / detachable x1,
Camera -> Front	2 MP with IR / privacy shutter (Windows Hello compliant)
Camera -> Rear	8mpixel with autofocus and LED flash
Audio (Sound)	WAVE and MIDI playback, Intel® High Definition Audio subsystem support, Headset:x1
Security	TPM (TCG V2.0 compliant) Password security (supervisor password, user password, hard disc lock) Integrated hardware security lock slot
Dimensions -> Main Unit + Keyboard	Standard Battery: 313.0 mm x 288.4 mm x 46.1 mm / 12.3" x 11.4" x 1.8"
Weight -> Main Unit + Keyboard	Standard Battery: 2.78kg / 6.2lb, Extended Battery: 3.14kg / 6.9lb
Battery -> Battery Life	Standard: Approx. 10 hours (Mobile Mark™ 2014)
Power (Power supply) -> AC adapter	Input: 100 V - 240 V AC, 50 Hz/ 60 Hz, Output: 15.6 V DC, 4.06A, DC In:x2 (Tablet + Keyboard)
Power (Power supply) -> Battery (Battery pack)	Standard: x2 Li-Ion (3 cell, 22Whr), Extended: x2 Li-Ion (6 cell, 45 Whr) optional
Power (Power supply) -> Hot Swap	Hot swap, Standby function, ACPI BIOS
Durability -> Drop resistance	MIL-STD 810G, 150cm
Durability -> Dust resistance	IEC529 (JIS C0920) IP6x
Durability -> Water resistance	IEC529 (JIS C0920) IP6x
Durability -> Certifications (Test Report)	EC529 (JIS C0920) IPx5
Operating temperature	MIL-STD 810G, -29 °C to 60 °C ***
Included in Box	Power Supply, Power Cord, Display cleaning cloth and User Manual
Integrated Options	Port Replicator:tablet - / detachable x1, Business Expansion Module**:Smart Card Reader, NFC, Fingerprint Reader
Footnote Description	* 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 ♦ for operation temperature test. May differ depending on models and options.