



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

## **TOUGHBOOK 33 mk2 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**

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Intel® Core™ i5-10310U vPro™ Processor / 6 MB cache, 1.7 GHz up to 4.4 GHz with Intel® Turbo Boost Technology

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Windows 11 Pro / Windows 10 Downgrade Model available

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12.0" Active Matrix (TFT) colour LCD 2160 x 1440 (QHD) LCD with sunlight-viewable glove-enabled capacitive touchscreen (up to 1.200cd/m<sup>2</sup>), IP55 Digitiser

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

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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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## TOUGHBOOK 33 mk2 Detachable

<https://ap.connect.panasonic.com/my/en/products/toughbook/toughbook-33-mk2-detachable>

<b>Mobile Computing Platform</b>	Intel® Core™ i5-10310U vPro™ Processor/ 6 MB cache, 1.7 GHz up to 4.4 GHz with Intel® Turbo Boost Technology
<b>Operating System</b>	Windows 11 Pro / Windows 10 Downgrade Model available
<b>RAM</b>	16GB (max. 32GB) DDR4
<b>Graphic Chip</b>	Intel® UHD Graphics
<b>Storage</b>	512GB OPAL NVMe SSD (1TB optional) [with heater]
<b>LCD</b>	12.0" Active Matrix (TFT) colour LCD 2160 x 1440 (QHD) LCD with sunlight-viewable glove-enabled capacitive touchscreen (up to 1.200cd/m <sup>2</sup> ), IP55 Digitiser
<b>Bluetooth™</b>	5.1 + EDR Class 1
<b>Wireless LAN</b>	Intel® Wi-Fi 6 AX201
<b>Mobile Broadband*</b>	4G LTE, supports 3G
<b>GPS*</b>	U-Blox NEO-M8N
<b>Sound</b>	WAVE and MIDI playback, Intel® High Definition Audio subsystem support
<b>Security</b>	TPM (TCG V2.0 compliant) Password security (supervisor password, user password, hard disc lock) Integrated hardware security lock slot
<b>Front Camera</b>	2 MP with IR / privacy shutter (Windows Hello compliant)
<b>Rear Camera</b>	8mpixel with autofocus and LED flash
<b>SD/SDXC Memory Card</b>	x1 (Keyboard)
<b>Configuration port (Tablet)**</b>	Serial, 2D Barcode Reader, 2nd USB 2.0
<b>USB 3.1</b>	x3 (x1 Tablet, x2 Keyboard)
<b>USB 3.1 type C PD</b>	x1
<b>USB 2.0</b>	x1 optional (Tablet)**x1 (Keyboard)
<b>HDMI</b>	x1 (Tablet)x1 (Keyboard)
<b>VGA</b>	x1 (Keyboard)
<b>Native Serial Port</b>	x1 optional (Tablet)** x1 (Keyboard)
<b>Headset</b>	x1 (Tablet)x1 (Keyboard)
<b>DC In</b>	x2 (Tablet + Keyboard)
<b>Port Replicator</b>	x1 (Keyboard)
<b>Dual Antenna Connector</b>	x1 (Keyboard)
<b>Business Expansion Module**</b>	Smart Card Reader, NFC, Fingerprint Reader
<b>AC Adapter</b>	Input: 100 V - 240 V AC, 50 Hz/ 60 Hz, Output: 15.6 V DC, 4.06A
<b>Battery</b>	Standard: x2 Li-Ion (3 cell, 22Whr)
	Extended: x2 Li-Ion (6 cell, 45 Whr) optional
<b>Battery Life</b>	Standard: Approx. 10 hours (Mobile Mark™ 2014)
	Extended: Approx. 20 hours (Mobile Mark™ 2014)
<b>Power Management</b>	Hot swap, Standby function, ACPI BIOS
<b>Dimensions (WxHxD)</b>	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"
<b>Weight</b>	Standard Battery: 2.78kg / 6.2lb
	Extended Battery: 3.14kg / 6.9lb
<b>Drop Resistance</b>	MIL-STD 810G, 150cm
<b>Dust Resistance</b>	IEC529 (JIS C0920) IP6x
<b>Water Resistance</b>	EC529 (JIS C0920) IPx5
<b>Operating Temperature</b>	MIL-STD 810G, -29 °C to 60 °C ***
<b>Standard Configuration</b>	CF-33mk2, 16GB RAM, 512GB SSD, 2x standard battery pack, IP55 digitiser pen
<b>Included in the box</b>	Power Supply, Power Cord, Display cleaning cloth and User Manual
<b>Footnote</b>	* 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.

**LAN** x1 (Tablet) x1 (Keyboard)