



**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**

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Windows 11 Pro

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

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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)



## TOUGHBOOK 33 mk3 Detachable

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

<b>Model</b>	CF-33mk3, 16GB RAM, 512GB SSD, 2x standard battery pack, IP55 digitiser pen
<b>OS (Operating System)</b>	Windows 11 Pro
<b>CPU (Mobile Computing Platform) -&gt; Processor</b>	Intel® Core™ i5-1245 vPro™ Processor/ 12 MB cache, 1.6 GHz up to 4.4 GHz with Intel® Turbo Boost Technology
<b>CPU (Mobile Computing Platform) -&gt; Graphics chips</b>	Intel® Iris® XE Graphics
<b>Memory (RAM) (RAM Standard / Maximum) (Main memory)</b>	16GB (max. 32GB) DDR4
<b>Storage</b>	512GB OPAL NVMe SSD (1TB optional) [with heater]
<b>Display &amp; Graphics</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>Wireless</b>	Mobile Broadband:4G LTE, supports 3G,  GPS*:U-Blox NEO-M8N,  Wi-Fi:Intel® WI-Fi6 AX201,  Bluetooth:5.1 + EDR Class 1
<b>I/O Ports (Interface)</b>	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,
<b>Camera -&gt; Front</b>	2 MP with IR / privacy shutter (Windows Hello compliant)
<b>Camera -&gt; Rear</b>	8mpixel with autofocus and LED flash
<b>Audio (Sound)</b>	WAVE and MIDI playback, Intel® High Definition Audio subsystem support,  Headset:x1
<b>Security</b>	TPM (TCG V2.0 compliant) Password security (supervisor password, user password, hard disc lock) Integrated hardware security lock slot
<b>Dimensions -&gt; Main Unit + Keyboard</b>	Standard Battery: 313.0 mm x 288.4 mm x 46.1 mm / 12.3" x 11.4" x 1.8"
<b>Weight -&gt; Main Unit + Keyboard</b>	Standard Battery: 2.78kg / 6.2lb,  Extended Battery: 3.14kg / 6.9lb
<b>Battery -&gt; Battery Life</b>	Standard: Approx. 10 hours (Mobile Mark™ 2014)

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**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)

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**Power (Power supply) -> Battery (Battery pack)** Standard: x2 Li-Ion (3 cell, 22Whr),

Extended: x2 Li-Ion (6 cell, 45 Whr) optional

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**Power (Power supply) -> Hot Swap**

Hot swap,

Standby function,

ACPI BIOS

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**Durability -> Drop resistance** MIL-STD 810G, 150cm

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**Durability -> Dust resistance** IEC529 (JIS C0920) IP6x

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**Durability -> Water resistance** IEC529 (JIS C0920) IP6x

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**Durability -> Certifications (Test Report)** EC529 (JIS C0920) IPx5

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**Operating temperature** MIL-STD 810G, -29 °C to 60 °C \*\*\*

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**Included in Box** Power Supply,

Power Cord,

Display cleaning cloth and User Manual

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**Integrated Options** Port Replicator:tablet - / detachable x1,

Business Expansion Module\*\*Smart Card Reader, NFC, Fingerprint Reader

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**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 II for operation temperature test. May differ depending on models and options.

