



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

TOUGHBOOK FZ-33 Detachable

The TOUGHBOOK FZ-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 FZ-33 Detachable Notebook 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

Intel® Core™ i7-1270P vPro™ Processor / 18MB cache, 2.2 GHz up to 4.8 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 1200cd/m²), IP55 Digitiser

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

Up to 6.5 hours battery life with standard twin batteries (MobileMark™ 2025) Up to 14 hours battery life with extended twin batteries (MobileMark™ 2025)



TOUGHBOOK FZ-33 Detachable

Yesterday's Legend, Today's
Leader.

TOUGH YET VERSATILE

An evolution of the best-selling Panasonic Toughbook 31 notebook, this latest detachable device is powered by the 12th Generation Intel® processor, delivering incredible performance, and is shipping with Windows 11 Pro. It also has a rich set of business interfaces with additional customisable options to meet a worker's needs. With its hot swappable twin batteries and outdoor viewing, glove enabled touchscreen, it's aversatile yet tough technology companion for mobile workers.

Panasonic Life Solutions India Pvt Ltd.

<https://toughbook.in.panasonic.com/>

Mobile Computing Platform	Intel® Core™ i5-1245U vPro™ Processor / 12 MB cache, 1.6 GHz up to 4.4 GHz with Intel® Turbo Boost Technology Intel® Core™ i7-1270P vPro™ Processor (with Intel vPro® Technology) / 18MB cache, 2.2 GHz up to 4.8 GHz with Intel® Turbo Boost Technology
Operating System	Windows 11 Pro
RAM	8 GB (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 1200 cd/m ²), 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)
Rear Camera	8mpixel 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)
LAN	x1 (Tablet) 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. 6.5 hours (Mobile Mark™ 2025) Extended: Approx. 14 hours (Mobile Mark™ 2025)
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: 2.811kg / 6.2lb Extended Battery: 3.14kg / 6.9lb
Drop Resistance	MIL-STD 810H, 150cm
Dust Resistance	IEC529 (JIS C0920) IP6x
Water Resistance	IEC529 (JIS C0920) IPx5
Operating Temperature	MIL-STD 810H, -29 °C to 60 °C ***
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.