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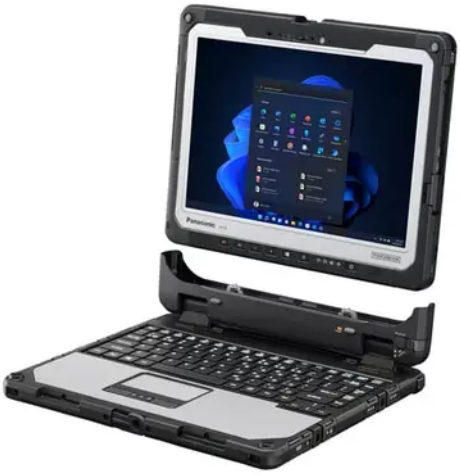

TOUGHBOOK 33 2-IN-1 Detachable, the 12.0" fully rugged notebook with hot swappable twin batteries, detachable keyboard with highly configurable capabilities

TOUGHBOOK 33 mk4 Detachable

The Panasonic TOUGHBOOK® 33 offers unparalleled flexibility in even the most demanding and extreme environments and is the world's first fully rugged 2-in-1 PC with a 3:2 screen. Inspired by the increasing demands of mobile professionals, the TOUGHBOOK 33 delivers rugged mobility in a highly customizable package that also includes a generation of backward compatibility. It has an optional i7-1270P processor that delivers an amazing 12 cores of computing power. A wide range of integrated options such as serial

Key Features

- 12" tablet easily converts to a laptop with optional keyboard
- 3:2 display for easier handling and better viewing of business applications
- Optional i7-1270P processor with 12-cores of computing power
- Twin battery design enables hot-swap battery replacement for continuous use
- Optional FirstNet Ready™ EM7511 Band 14 mobile broadband

intel vPRO i5 intel vPRO i7

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TOUGHBOOK 33 mk4 Detachable

https://ap.connect.panasonic.com/vn/vi/products/toughbook/toughbook-33-mk4-detachable

Model	CF-33mk4, 16GB RAM, 512GB SSD, 2x standard battery pack, IP55 digitiser pen
OS (Operating System)	Windows® 11 Pro
CPU (Mobile Computing Platform) -> Processor	Intel® Core™ i5-1345U vPro™ processor (optional i7-1370P)
CPU (Mobile Computing Platform) -> Graphics chips	Intel® Iris Xe Graphics (Built-in CPU)
Memory (RAM) (RAM Standard / Maximum) (Main memory)	16GB (Option: 8GB / 32GB) (LPDDR4x, 4266MT/s, Onboard)
Storage	SSD : 512GB / 1TB / 2TB
Display & Graphics	12" WUXGA 1200 nit multi touch + digitizer display
Wireless	Cellular(WWAN):optional 4G and 5G, Wi-Fi:Wi-Fi 6E, Bluetooth:
I/O Ports (Interface)	USB-A: tablet (optional 2nd USB-A) /detachable x3, USB-Type C: Thunderbolt™ 4 USB-C (w/PD), SD Card Reader(Micro SD-XC): tablet/Optional MicroSDXC detachable/ SDXC, HDMI, VGA: tablet -/ detachable VGA, LAN, Serial: tablet Optional Serial (True) /detachable Serial(USB), Audio In/Out , SIM:Dual SIM (Nano-SIM & eSIM,) Docking connector
Camera -> Front	2MP, 1920 x 1080 pixel(Still) / 1920 x 1080 pixel, 30fps(Video), Dual Microphone, with IR for Windows Hello
Camera -> Rear	8MP, 3264 x 2448 pixel(Still) / 1920 × 1080 pixel, 30fps(Video), with LED flash
Audio (Sound)	Intel® High Definition Audio subsystem support, Stereo speaker
Security	TPM (TCG V2.0 compliant)
Pointing device -> Touchscreen (Touch panel)	Dual Touch (10 Finger touch(Capacitive) & Digitizer)
Sensors	Acceleration sensor, Digital compass,Gyro sensor, Ambient light sensor
Weight -> Main Unit + Keyboard	(6.2 lbs with optional Premium Keyboard)
Weight -> Main Unit	3.4 lbs.
Battery -> Battery Life	7.0 hours (15 hours with optional long life batteries) – MobileMark 25
Power Consumption	Approx. 45 W* / Approx. 110W (maximum when recharging in the ON state)
Power (Power supply) -> AC adapter	Input: 100 V - 240 V AC, 50 Hz/ 60 Hz, Output: 15.6 V DC, 7.05 A
Power (Power supply) -> Battery (Battery pack)	Battery pack(S), Li-ion 11.1V, 1,990 mAh x 2, Battery pack(L), Li-ion 10.8V, 4,120 mAh x 2 (Option)
Power (Power supply) -> Hot Swap	Yes
Durability -> Drop resistance	120 cm{4.0 feet}**
Operating temperature	-10 °C to 50 °C {14 °F to 122 °F } (IEC60068-2-1, 2)***
Storage temperature	- 20 °C to 60 °C {-4 °F to 140 °F}
Warranty	3-year limited warranty, parts and labor
Electromagnetic Compatibility (EMC)	MIL-STD461F****
Footnote Description	* Rated power consumption ** 26 sided/drop on plywood. *** Do not expose the skin to this product when using the product in a hot or cold environment. When using in hot or cold environment, some peripherals may fail to work properly. Check the operation environment of the peripherals. Using this product continuously in a hot environment will shorten the product life. Avoid use in these types of environments. When using in low temperature environment, startup may become slow or battery operation time may become short. The computer consumes power when the SSD is warming up during startup. Therefore, if you are using battery power and the remaining power is low, the computer may not start up. **** Tested by an independent third-party lab following MIL-STD-461F