



**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





## TOUGHBOOK 33 mk4 Detachable

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

<b>Model</b>	CF-33mk4, 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™ i5-1345U vPro™ processor (optional i7-1370P)
<b>CPU (Mobile Computing Platform) -&gt; Graphics chips</b>	Intel® Iris Xe Graphics (Built-in CPU)
<b>Memory (RAM) (RAM Standard / Maximum) (Main memory)</b>	16GB (Option: 8GB / 32GB) (LPDDR4x, 4266MT/s, Onboard)
<b>Storage</b>	SSD : 512GB / 1TB / 2TB
<b>Display &amp; Graphics</b>	12" WUXGA 1200 nit multi touch + digitizer display
<b>Wireless</b>	Cellular(WWAN):optional 4G and 5G, Wi-Fi:Wi-Fi 6E, Bluetooth:
<b>I/O Ports (Interface)</b>	USB-A: tablet (optional 2nd USB-A) /detachable x3, USB-Type C: Thunderbolt™ 4 USB-C (w/DP), 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
<b>Camera -&gt; Front</b>	2MP, 1920 x 1080 pixel(Still) / 1920 x 1080 pixel, 30fps(Video), Dual Microphone, with IR for Windows Hello
<b>Camera -&gt; Rear</b>	8MP, 3264 x 2448 pixel(Still) / 1920 x 1080 pixel, 30fps(Video), with LED flash
<b>Audio (Sound)</b>	Intel® High Definition Audio subsystem support, Stereo speaker
<b>Security</b>	TPM (TCG V2.0 compliant)
<b>Pointing device -&gt; Touchscreen (Touch panel)</b>	Dual Touch (10 Finger touch(Capacitive) & Digitizer)
<b>Sensors</b>	Acceleration sensor, Digital compass,Gyro sensor, Ambient light sensor
<b>Weight -&gt; Main Unit + Keyboard</b>	(6.2 lbs with optional Premium Keyboard)
<b>Weight -&gt; Main Unit</b>	3.4 lbs.
<b>Battery -&gt; Battery Life</b>	7.0 hours (15 hours with optional long life batteries) – MobileMark 25
<b>Power Consumption</b>	Approx. 45 W* / Approx. 110W (maximum when recharging in the ON state)
<b>Power (Power supply) -&gt; AC adapter</b>	Input: 100 V - 240 V AC, 50 Hz/ 60 Hz, Output: 15.6 V DC, 7.05 A
<b>Power (Power supply) -&gt; Battery (Battery pack)</b>	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)
<b>Power (Power supply) -&gt; Hot Swap</b>	Yes
<b>Durability -&gt; Drop resistance</b>	120 cm{4.0 feet}**
<b>Operating temperature</b>	-10 °C to 50 °C {14 °F to 122 °F} (IEC60068-2-1, 2)***
<b>Storage temperature</b>	- 20 °C to 60 °C {-4 °F to 140 °F}
<b>Warranty</b>	3-year limited warranty, parts and labor
<b>Footnote Description</b>	* 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.