



## PANASONIC TOUGHBOOK® 33 COMPARISON GUIDE

SPECIFICATION	 TOUGHBOOK 33 Mk1	 TOUGHBOOK 33 Mk2
Form Factor	2-in-1 (laptop or tablet SKU's) optional laptop mode only locking screw	2-in-1 (tablet SKU's with optional keyboard) optional laptop mode only locking screw
Rugged Level	Fully Rugged	Fully Rugged
810G Drop Rating	4 foot (5 foot tablet only)	4 foot (5 foot tablet only)
IP Rating	65	65
461F	Yes	Yes
C1D2 Haz Loc	Optional	Optional
Storage Drive Heater	Yes	Yes
Handle	Yes (on Premium Keyboard)	Yes (on Premium Keyboard)
Processor	Intel Core i5-7300U 2.6GHz vPro (Turbo Boost up to 3.5GHz) Intel Core i7-7600U 2.8GHz vPro (Turbo Boost up to 3.9GHz)	Intel Core i5-10310U 1.7GHz vPro (Turbo Boost up to 4.4GHz) Intel Core i7-10810U 1.1GHz vPro (Turbo Boost up to 4.9GHz)
Processor Class & Generation	Standard Voltage — 7th Gen	Standard Voltage — 10th Gen
Cache	3MB (4MB on i7)	6MB (12MB on i7)
Display	Multi Touch +Digitizer (capacitive)	Multi Touch +Digitizer (capacitive)
Resolution	12.0" QHD 2160x1440 (224 PPI)	12.0" QHD 2160x1440 (224 PPI)
LCD Brightness	1200 nit	1200 nit
Glove & Wet Operation	Yes	Yes
Video Adapter	Intel® HD 620	Intel® UHD Graphics for 10th Gen Intel® Processors
Operating Systems	Win 10 Pro	Win 10 Pro
Memory (RAM)	8-16GB DDR3 (1866MHz)	16-32GB DDR4 (2666MHz)
Storage Drive	256-512GB SSD (SATA)	512GB-1TB OPAL SSD (NVMe)
Storage Drive Removable	Yes (optional Quick-release)	Yes (optional Quick-release)
Webcam	1080p Infrared	1080p Infrared; Privacy Cover
Mic	x2	x2 (improved accuracy)
Rear Camera	8MP	8MP (improved low light, up to 30x faster focus)
Speakers	x2 (86db)	x2 (92db — 50% louder)

Shaded cells indicate a difference between the Mk1 and the Mk2 models.



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TOUGHBOOK 33 Mk2

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SPECIFICATION	TOUGHBOOK 33 Mk1 	TOUGHBOOK 33 Mk2 
Audio 3.5mm Port	x1	x1
USB-A Ports	x4 (opt 5th) tablet = 1 (5 Gbps), optional 2nd (0.5 Gbps) premium keyboard = 3 (5 Gbps x2, 0.5 Gbps x1)	x4 (opt 5th) tablet = 1 (5 Gbps), optional 2nd (0.5 Gbps) premium keyboard = 3 (5 Gbps x2, 0.5 Gbps x1)
USB-C Ports	—	x1 (10 Gbps)
SD Card Slot	x2 (one microSDXC on tablet, SDXC on Premium Keyboard)	x1 (SDXC on Premium Keyboard)
Video Outputs	x3 (one HDMI on tablet, one HDMI & VGA on Premium Keyboard)	x4 (one HDMI & USB-C on tablet, one HDMI & VGA on Premium Keyboard)
Serial Port	x1 (optional 2nd) — one on Premium Keyboard; optional 2nd on tablet	x1 (optional 2nd) — one on Premium Keyboard; optional 2nd on tablet
Ethernet	x2 (1Gbps on tablet and premium keyboard)	x2 (1Gbps on tablet and Premium Keyboard)
Wi-Fi	Wi-Fi 5 (up to 867 Mbps)	Wi-Fi 6 (up to 2.4 Gbps)
Wi-Fi Processor	Intel® Dual Band Wireless-AC 8265	Intel® Wi-Fi 6 AX201
Bluetooth	4.1, Class 1 (1 Mbps)	5.1, Class 1 (2 Mbps)
Mobile Broadband	4G LTE (7455 or EM7511 Band 14)	4G LTE (EM7511 Band 14, CBRS Band 48)
SIM	x1 (physical SIM)	x2 (physical + eSIM)
Dedicated GPS (dGPS)	Optional (u-blox M8N)	Optional (u-blox M8N)
Dual Pass	Yes	Yes
Optional Premium Keyboard	Yes (Red) / CF-VEK331LMP (3x brighter with software update)	Yes (Red) / CF-VEK333LMP (3x brighter out of box)
Stylus Pen	CF-VNP023U (IP55 digitizer with 1 button)	CF-VNP332U (IP55 digitizer with 2 buttons)
Kensington Lock Slot	x2	x2
TPM	2.0	2.0
Intel® Hardware Shield	—	Yes
Microsoft Secured-Core PC	—	Yes
Persistence® Technology in BIOS	Yes	Yes
Fingerprint Reader	Optional (swipe)	Optional (touch)
Insertable SmartCard Reader	Optional	Optional
Contactless SmartCard Reader	Optional	Optional
Barcode Reader	Optional	Optional (now brighter laser)
Location of 2nd Battery	Tablet (bump out)	Tablet (bump out)
Hot Swap	Yes	Yes
Battery Life	10 hours (20 hours with optional 2nd battery) MobileMark 2014	10 hours (20 hours with optional 2nd battery) MobileMark 2014
Dimensions (including handle)	11.4" x 12.3" x 1.8" (9.6" x 12.1" x 0.9" tablet only)*	11.4" x 12.3" x 1.8" (9.6" x 12.1" x 0.9" tablet only)*
Weight	6.1 lbs (3.4 lbs tablet only)	6.1 lbs (3.4 lbs tablet only)

\*2.4" with quick-release SSD and long life battery bump out

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TOUGHBOOK 33 Mk2

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