

	Panasonic TOUGHBOOK® 55 Mk3	Panasonic TOUGHBOOK® 56 Mk1
Form Factor	Laptop	Laptop
OS	Windows 11 Pro, Red Hat Enterprise Linux 9.4, 10	Windows 11 Pro, Red Hat Enterprise Linux 10.1
Modular Design	Yes - 7 areas (3 xPAK areas + Keyboard, RAM, SSD, Battery)	Yes - 6 areas (3 xPAK areas + RAM, SSD, Battery)
Rugged Level	Rugged (formerly referred to as Semi-Rugged)	Rugged (formerly referred to as Semi-Rugged)
810H Drop Rating	3 foot	3 foot
IP Rating	53	53
Air Worthiness	-	Yes (Level 3 AC, Level 4 Batteries)
Storage Drive Heater	Yes	Yes
Handle	Yes	Yes
Processor	Intel® Core™ i5-1345U vPro (up to 4.7GHz) - 10 cores (2 perf, 8 eff)	Intel® Core™ Ultra 5 235H vPro (up to 5.0GHz) - 14 cores (4 perf, 8 eff, 2 lp)
Processor Generation	Intel® Core™ i7-1370P vPro (up to 5.2GHz) - 14 cores (6 perf, 8 eff)	Intel® Core™ Ultra 7 265H vPro (up to 5.3GHz) - 16 cores (6 perf, 8 eff, 2 lp)
NPU (for AI tasks)	13th Gen	Series 2 (formerly referred to as 15th Gen)
	-	Yes
Graphics	Intel® UHD Graphics	Intel® Graphics
	Optional Intel® Iris® Xe	Optional Intel® Arc™ 140T GPU (8 cores)
	14.0" HD 16:9 (112 PPI) 220 nit	Optional AMD Radeon™ PRO W7500M (8GB GDDR6)
Displays	14.0" FHD 16:9 (157 PPI) 1000 nit touch	14.0" WUXGA 16:10 (162 PPI) 350 nit
Touch Display Technology	Capacitive	14.0" WUXGA 16:10 (162 PPI) 1000 nit touch
Touch Modes	4 (Pen, Pen & Touch, Touch, Glove)	Capacitive
Lid Closing Mechanism	Latch	5 (Pen, Pen & Touch, Touch, Glove, Auto)
Memory (RAM)	16-64GB DDR4 (3200 MHz) user-upgradeable	Latchless rattle-free easy open & pressure-closing
Main Storage Drive	512GB-2TB OPAL SSD (NVMe)	16-64GB DDR5 (5600 MHz) user-upgradeable*
Main Storage Drive Removable	Yes (Quick-release; opt locking screw)	512GB-2TB OPAL SSD (NVMe); opt. FIPS
2nd Storage Drive	512GB-2TB OPAL SSD (NVMe)	Yes (Quick-release; opt locking screw)
2nd Storage Drive Removable	Yes (Quick-release; opt locking screw)	512GB-2TB OPAL SSD (NVMe); opt. FIPS
Optical Drive	Optional (DVD or Blu-ray)	Yes (Quick-release; opt locking screw)
Webcam	2MP Infrared; Privacy Cover	Optional (DVD or Blu-ray)
Mic	x2 (dual array with AI noise reduction)	5MP Infrared; Privacy Cover
Speakers	x2 (92 db); MaxxAudio	x2 (dual array with AI noise reduction)
Audio 3.5mm Port	x1	x2 (98 db); MaxxAudio
USB-A Ports	x2 (10 Gbps, 5 Gbps), opt. 3rd USB-A (5 Gbps)	x1
USB-C Ports	x1 (40 Gbps Thunderbolt 4 w/PD & Video Out); opt USB-C (5 Gbps)	x1 (5Gbps), opt. 2nd USB-A (5Gbps)
Rugged Fischer USB Port	Optional	x2 (40 Gbps Thunderbolt 4 w/PD & Video Out; opt USB-C (5 Gbps)
SD Card Slot	x1 (MicroSDXC, UHS-1)	-
Video Outputs	x2 (optional 3rd) - HDMI x1, Thunderbolt USB-C x1, opt. VGA x1	Optional MicroSDXC UHS-1
Serial Port (True)	Optional	x3 (optional 3rd) - HDMI x1, Thunderbolt USB-C x2, opt. VGA x1
Ethernet	x1 (1 Gbps); opt. 2nd (1 Gbps)	Optional
SIM	x2 (physical + eSIM)	x1 (1 Gbps); opt. 2nd (1 Gbps or 2.5 Gbps); opt. 3rd (10 Gbps)
Mobile Broadband (up/download)	4G EM7595 embedded (0.05 / 0.35 Gbps) -- AT&T, Verizon	x2 (physical + eSIM)
	5G EM9190 xPAK (0.66 / 4.1 Gbps) -- AT&T, Verizon	4G EM7595 embedded (0.15 / 0.5 Gbps) -- AT&T, Verizon
	band 48 (CBRS)	5G EM9291 embedded (0.90 / 3.5 Gbps) -- AT&T, Verizon, T-Mobile
Private Cellular	Optional (u-blox M8N)	band 48 (CBRS), b106**
Dedicated GPS	Optional Dual - fixed (n/a with 5G xPAK)	Optional (u-blox M9N)
Antenna Pass Through	Wi-Fi 6E	Optional Dual - software selectable (n/a with dGPU)
Wi-Fi	Intel® AX211 (up to 2.4 Gbps)	Wi-Fi 7
Wi-Fi Processor	5.3, Class 1 (2 Mbps)	Intel® BE200 (up to 5.8 Gbps)
Bluetooth	Yes (Color-selectable backlight)	5.4, Class 1 (2 Mbps)
Keyboard	Yes	Yes (Color-selectable backlight)
Keyboard Removable	x1	Yes
Kensington Lock Slot	Capacitive (flush)	x1
Touchpad	8 (short & long press - 4 keys)	Capacitive (recessed - easy find)
Programmable Actions	2.0	8 (short & long press - 4 keys)
TPM	Yes	2.0
Intel® Hardware Shield	Yes	Yes
Microsoft Secured-Core PC	Yes	Yes
Local Platform Erase	Yes (wipe drive in <1 min)	Yes (wipe drive in <1 min)
Persistence® Technology in BIOS	Yes	Yes
Fingerprint Reader	Optional (xPAK)	Optional (up to 2 locations -- xPAK or embedded)
Insertable SmartCard Reader	Optional (up to 2 locations)	Optional (up to 2 locations)
Contactless SmartCare Reader	Optional (xPAK)	Optional (up to 2 locations -- xPAK or embedded)
Barcode Reader	Optional	Optional
Hot Swap	Optional (with 2nd battery)	Optional (with 2nd battery)
Battery Life (MobileMark 30)	9 hrs (18 hrs w/optional 2nd battery)	12 hrs (24 hrs w/optional 2nd battery)
Dimensions (including handle)	10.7" x 13.6" x 1.3" (5G xPAK adds bump out)	10.7" x 13.6" x 1.4" (dGPU adds bump out)
Starting Weight	4.6 lbs (non-touch model); 4.9 lbs (touch model)	4.7 lbs (non-touch model); 5.0 lbs (touch model)

* except dGPU model which does not have user-upgradeable RAM or Left/Rear xPAK's

** b106 on 4G EM7595 (to be added on 5G EM9291 by mk2)