

# PANASONIC TOUGHBOOK FAMILY QUICK REFERENCE GUIDE



	TOUGHBOOK 55	TOUGHBOOK 20	TOUGHBOOK 33	TOUGHBOOK G1	TOUGHBOOK A3	TOUGHBOOK S1	TOUGHBOOK L1	TOUGHBOOK T1	TOUGHBOOK N1	TOUGHBOOK N1 Tactical
<b>SPECIFICATION</b>	Laptop	2-in-1	2-in-1 (w/opt. keyboard)	Tablet	Tablet	Tablet	Tablet	Handheld	Handheld	Handheld
Operating System	Windows 10 Pro	Windows 10 Pro	Windows 10 Pro	Windows 10 Pro	Android 9	Android 10	Android 8.1	Android 9	Android 9	Android 9
Screen Size & Resolution	14" FHD (touch model) or HD	10.1" WUXGA	12.0" QHD	10.1" WUXGA	10.1" WUXGA	7" WXGA	7" HD	5" HD	4.7" HD	4.7" HD
Brightness (nit)	1000 (touch model)	800	1200	800	500 (typical), 800 (max)	500	380	420	500	500
Touch Display	Optional Gloved Multi Touch	Gloved Multi Touch + Digitizer	Gloved Multi Touch + Digitizer	Gloved Multi Touch + Digitizer	Gloved Multi Touch	Gloved Multi Touch	Gloved Multi Touch	Gloved Multi Touch	Gloved Multi Touch	Gloved Multi Touch
Cameras	IR Webcam	Rear Cam & IR Webcam	Rear Cam & IR Webcam	Rear Cam & IR Webcam <sup>3</sup>	Rear Cam & Webcam	Rear Cam & Webcam	Rear Cam	Rear Cam	Rear Cam & Webcam	Rear Cam & Webcam
Optical Drive	Optional (DVD or Blu-ray)									
CPU	Intel® Core™ i5-8365U (i7 optional)	Intel® Core™ i5-7Y57	Intel® Core™ i5-10310U (i7 optional)	Intel® Core™ i5-7300U (i7 optional)	Qualcomm® SDM660	Qualcomm® SDM660	Qualcomm® MSM8909	Qualcomm® MSM8909	Qualcomm® SDM660-2	Qualcomm® SDM660-2
Dedicated Graphics	Optional									
Starting Storage Drive	512 GB SSD (optional 2nd SSD Drive)	256 GB SSD	512 GB SSD	256 GB SSD	64 GB Flash	64 GB Flash	16 GB Flash	16 GB Flash	32 GB Flash	64 GB Flash
Memory (RAM)	8-64 GB	8-16 GB	16-32 GB	8 GB	4 GB	4 GB	2 GB	2 GB	3 GB	4 GB
Antenna Pass Through	Optional	•	•	•	Optional	Optional				
Dedicated GPS	Optional	Optional	Optional	Optional	•	•	•	•	•	•
Mobile Broadband	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional (& optional voice)	Optional (& optional voice)	Optional (& optional voice)
FirstNet™ Certified	•	•	•		•	•			•	
Swappable Battery	Optional Hot Swap	Hot Swap	Hot Swap	Optional Hot Swap	Hot Swap	Warm Swap			Warm Swap	Warm Swap
Battery Life (hours) <sup>1</sup>	Up to 20, (up to 40 with optional 2nd battery)	8.5 (17 with optional 2nd battery)	10 (20 with optional battery)	11 (22 with optional battery)	9 (15.5 with optional battery)	9 (14.5 with optional battery)	9	12	12 (19 with optional battery)	12
Starting Weight (lbs.)	4.6-4.9	3.9	3.4 (6.1 w/opt. Premium Keyboard)	2.4	2.0	1.0	0.9	0.5	0.6	0.6
<b>RUGGEDNESS</b>	Semi-Rugged	Fully Rugged	Fully Rugged	Fully Rugged	Fully Rugged	Fully Rugged	Fully Rugged	Fully Rugged	Fully Rugged	Fully Rugged
Backlit Keyboard	Color-selectable	White	Red	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fanless		•	•	•	•	•	•	•	•	•
Covered Ports	•	•	•	•	•	•	•	•	•	•
Storage Drive Heater	•	•	•	•						
User-removable Expansion Packs	•									
User-Removable Storage	•	Optional	Optional		• (SD card)	• (SD card)	• (SD card)	• (SD card)	• (SD card)	• (SD card)
User-Removable Battery	•	•	•	•	•	•	•	•	•	•
Hand Strap/Handle	•	•	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Magnesium Alloy Casing or Chassis	•	•	•	•					•	•
Spill-resistant Keyboard	•	•	•	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IP Certified <sup>2</sup>	IP53	IP65	IP65	IP65	IP65	IP67	IP67	IP68	IP68	IP68
MIL-STD-810G Certified <sup>2</sup>	810H, 3 ft	4 ft (5 ft Tablet only)	4 ft (5 ft Tablet only)	4 ft	810H, 6 ft	810H, 5 ft	5 ft	5 ft	7 ft	7 ft

<sup>1</sup> Battery life for Window devices is based on MobileMark 2014 at 150 nit and using no cellular mobile broadband. Battery life for Android devices depends on user profile.  
<sup>2</sup> Tested by a national, independent, third-party lab following MIL-STD-810G/MIL-STD-810H Method 516.6 Procedure IV for transit drop and IEC 60529 Sections 13.4, 13.6.2, 14.2.5 and 14.3 for IP.  
<sup>3</sup> Not available for models with dedicated GPS or 2nd USB.

