



Panasonic Toughbook and Toughpad Quick Reference Guide



	TOUGH PAD 4K	TOUGHBOOK SX2	TOUGHBOOK C2	TOUGHBOOK 52	TOUGHBOOK 53	TOUGH PAD A1	TOUGH PAD B1	TOUGH PAD G1	TOUGHBOOK H2	TOUGHBOOK 19	TOUGHBOOK 31
PERFORMANCE FEATURES											
Operating System	Windows® 8.1 Pro	Windows® 7 Professional ¹	Windows® 8.1 Pro, Windows® 7 Professional	Windows® 7 Professional ¹	Windows® 8 Pro, Windows® 7 Professional	Android™ 4.0	Android™ 4.0	Windows® 8 Pro, Windows® 7 Professional	Windows® 7 Professional ¹	Windows® 8 Pro, Windows® 7 Professional	Windows® 8 Pro, Windows® 7 Professional
Convertible Laptop to Tablet			•							•	
Display Image Rotation	•		•			•	•	•	•	•	
Supports Touch	•		•		Select Models	•	•	•	•	•	•
Supports Gestures	•		•		Touchpad	•	•	•		Select Models	
Supports Electronic Stylus (Digitizer)	Optional (Optical)		Select Models			•		•	•	Select Models	
Internal Optical Drive		•		•	•						Optional
Screen Size	20"	12.1" HD+	12.5" HD	15.4" WUXGA	14.0" HD	10.1" XGA	7" WSVGA	10.1" WUXGA	10.1" XGA	10.1" XGA	13.1" XGA
Chipset	Intel® Core™ i5-3437U	Intel® Core™ i5-3320M	Intel® Core™ i5-4300U	Intel® Core™ i5-3340M	Intel® Core™ i5-3340M	Marvel® ARMADA PXA2128	T1 OMAP4460	Intel® Core™ i5-3437U	Intel® Core™ i5-3437U	Intel® Core™ i5-3340M	Intel® Core™ i5-3380M, i5-3340M and i3-3120M
Dedicated Graphics	•			•							Select Models
Base Storage	256GB SSD	320GB HDD (5400rpm)	500GB HDD (7200rpm)	500GB HDD (7200rpm)	elite (500GB 7200rpm) lite (320GB 5400rpm)	16GB Flash	16GB Flash	128GB SSD	500GB HDD (7200rpm)	500GB HDD (7200rpm)	i5 (500GB 7200rpm) i3 (320GB 5400rpm)
Memory	8GB	4-8GB	4-8GB	4-8GB	4-8GB	1GB	1GB	4GB	4-8GB	4-8GB	i5 (4-8GB), i3 (2-8GB)
Weight (lbs.)	5.3	3.1	3.99 (3.72 or 4.28 with optional batteries)	7.5	5.6-6.5	2.1	1.2	2.5 (3.0 with optional battery)	3.5	5.1	7.9-8.2
Battery Life ²	2 hours	14.5 hours	14 hours (7 or 19 hours with optional batteries)	4 hours	8-11 hours	10 hours	8 hours	8 hours (18.5 hours with optional battery)	7 hours	9.5 hours	8-14.5 hours (Up to 21 hours with optional 2 nd battery) ³
Hot-swappable Battery Design			•						•		
RUGGED FEATURES											
HDD Heater					Optional	n/a	n/a	•	•	•	•
Panasonic CircuLumin™ Technology					Select Models				•	•	• ³
TransflectivePlus Display									•	•	
IP65 Certified ⁴						•	•	•	•	•	•
MIL-STD-810G Certified ⁴					•	•	•	•	•	•	•
Fanless or Hybrid Cooling System			•			•	•		•	•	•
Covered Ports				•	•	•	•	•	•	•	•
Direct Bonding			•			•	•	•			
In-plane Switching	•		•					•			
Anti-reflective Screen Treatment			Select Models	•	•	•	•	•	•	•	•
Anti-glare Screen Treatment		•	Select Models	•	•	•	•	•	•	•	•
Quick-release Hard Drive			•	•	•					•	•
Hand Strap/Handle			•	•	•	Optional	•	Optional	•	•	•
Flexible Hard Drive Connector	n/a	•	•	•	•	n/a	n/a	n/a	•	•	•
Shock-mounted HDD or SSD/Flash	•	•	•	•	•	•	•	•	•	•	•
Magnesium Alloy Casing or Chassis		•	•	•	•	•	•	•	•	•	•
Spill-resistant Keyboard			•	•	•	n/a	n/a	n/a	n/a	•	•
MIL-STD-810G Drop Rating	1 ft (2.5 ft on base)	1 ft (2.5 ft on base)	1 ft (2.5 ft 6 sides)	1 ft (2.5 ft 6 sides)	3 ft ⁴	4 ft	5 ft ⁴	4 ft ⁴	6 ft ⁴	6 ft ⁴	6 ft ⁴
3-year Warranty	•	•	•	•	•	•	•	•	•	•	•
Outdoor Viewability	OK	OK	Good	OK	Good (Select Models)	Good	Good	Good	Superior	Superior	Superior
WIRELESS FEATURES											
Dedicated GPS Option (SiRFstar)					•	•	•	•	•	•	•
Mobile Broadband Option			4G LTE Multi Carrier (with satellite GPS)		4G LTE Multi Carrier (with satellite GPS)	4G LTE Carrier Specific (with satellite GPS)	4G LTE Carrier Specific (with satellite GPS)	4G LTE Multi Carrier (with satellite GPS)	4G LTE Carrier Specific (with satellite GPS) or 3G Gobi Multi Carrier (with satellite GPS)	4G LTE Multi Carrier (with satellite GPS)	4G LTE Multi Carrier (with satellite GPS)
Field-upgradable Mobile Broadband			•	•	•					•	•
Wi-Fi	•	•	•	•	•	•	•	•	•	•	•
Bluetooth®	•	•	•	•	•	•	•	•	•	•	•

¹ A full set of Windows® 8 drivers are available at panasonic.com/toughbook/support.

² Battery life, unless otherwise stated, is based on MobileMark.

³ Available on select models.

⁴ Tested by a national independent third party lab following MIL-STD-810G Method 516.6 Procedure IV for transit drop and IEC 60529 Sections 13.4, 13.6.2, 14.2.5 and 14.3 for IP65.

