



Panasonic Toughbook Quick Reference Guide

Panasonic recommends Windows® 7.



	TOUGHBOOK C1	TOUGHBOOK S10	TOUGHBOOK F9	TOUGHBOOK 52	TOUGHBOOK 53	TOUGHPAD A1	TOUGHBOOK U1 ULTRA	TOUGHBOOK H2	TOUGHBOOK 19	TOUGHBOOK 31
PERFORMANCE FEATURES										
Operating System	Genuine Windows® 7 Professional ¹	Genuine Windows® 7 Professional	Genuine Windows® 7 Professional ¹	Genuine Windows® 7 Professional ¹	Genuine Windows® 7 Professional ¹	Android™ 4.0	Genuine Windows® 7 Professional ¹	Genuine Windows® 7 Professional ¹	Genuine Windows® 7 Professional ¹	Genuine Windows® 7 Professional ¹
Convertible Laptop to Tablet	•								•	
Display Image Rotation	•					•	•	•	•	
Supports Touch	•				Select Models	•	•	•	•	•
Supports Gestures	•				Touchpad	•				
Supports Electronic Stylus (Digitizer)	Select Models					•		•	Select Models	
Internal Optical Drive		•	•	•	•					Optional
Screen Size	12.1" Widescreen	12.1" Widescreen	14.1" Widescreen	15.4" Widescreen	14.0" HD	10.1" XGA	5.6" Widescreen	10.1" XGA	10.1" XGA	13.1" XGA
Chipset	Intel® Core™ i5	Intel® Core™ i5	Intel® Core™ i5	Intel® Core™ i5	Intel® Core™ i5 or i3	Marvel®	Intel® Atom™	Intel® Core™ i5	Intel® Core™ i5	Intel® Core™ i5 or i3
Dedicated Graphics				•						Select Models
Base Storage	320GB HDD (7200rpm)	320GB HDD (5400rpm)	320GB HDD (5400rpm)	320GB HDD (7200rpm)	320GB HDD (7200 & 5400rpm)	16GB Flash	64GB SSD	320GB HDD (7200rpm)	320GB HDD (7200rpm)	320GB HDD (7200 & 5400rpm)
Memory	2-8GB	4-8GB	2-8GB	4-16GB	2-8GB	1GB	2GB	4-8GB	4-8GB	2-8GB
Weight (lbs.)	3.28 (3.73 w/opt. 2 nd battery)	3.0	3.6	7.5	5.6-6.5	2.1	2.3	3.5	5.1	7.9-8.2
Battery Life ²	6 hours (12 hours w/opt. 2 nd battery)	12.5 hours	7 hours	4 hours	7-10 hours	10 hours ³ (simulated real world conditions)	9 hours ⁴	6.5 hours ⁴	8.5 hours	7.5-13.5 hours (20 hours w/opt. 2 nd battery) ⁵
Hot-swappable Battery Design	•						•	•		
RUGGED FEATURES										
HDD Heater					Optional		n/a	•	•	•
Panasonic CircuLumin™ Technology					Select Models			•	•	•
TransflectivePlus Display							•	•	•	
IP65 Certified ⁶						•	•	•	•	•
MIL-STD-810G Certified ⁶					•	•	•	•	•	•
Fanless or Hybrid Cooling System						•	•	•	•	•
Covered Ports				•	•	•	•	•	•	•
Anti-reflective Screen Treatment				•	Select Models	•	•	•	•	•
Quick-release Hard Drive	•			•	•				•	•
Hand Strap/Handle	•		•	•	•		•	•	•	•
Flexible Hard Drive Connector	•	•	•	•	•		•	•	•	•
Shock-mounted HDD or SSD	•	•	•	•	•		•	•	•	•
LCD Mounting Protection	•	•	•	•	•	•	•	•	•	•
Anti-glare Screen Treatment	•	•	•	•	•	•	•	•	•	•
Magnesium Alloy Casing or Chassis	•	•	•	•	•	•	•	•	•	•
Spill-resistant Keyboard	•	•	•	•	•	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 on base)	1 ft (2.5 ft 6 sides)	3 ft	4 ft	6 ft ⁶	6 ft ⁶	6 ft ⁶	6 ft ⁶
3-year Warranty	•	•	•	•	•	•	•	•	•	•
Outdoor Viewability					Sunlight (Select Models)	Daylight	Sunlight	Sunlight	Sunlight	Sunlight
WIRELESS FEATURES										
GPS Option						•	•	•	•	•
Field-upgradable Mobile Broadband	•	•	•	•	•				•	•
Mobile Broadband Option	•	•	•	•	•	•	•	•	•	•
Wi-Fi	•	•	•	•	•	•	•	•	•	•
Bluetooth®	•	•	•	•	Select Models	•	•	•	•	•

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

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

³ Battery test results based on 100 nit, Wi-Fi on, running video at 50% audio level.

⁴ With both batteries.

⁵ Available on select models.

⁶ 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.