



Panasonic Toughbook Quick Reference Guide

Panasonic recommends Windows 8.



	TOUGHBOOK SX2	TOUGHBOOK F9	TOUGHBOOK C2	TOUGHBOOK 52	TOUGHBOOK 53	TOUGHPAD A1	TOUGHBOOK U1 ULTRA	TOUGHBOOK H2	TOUGHBOOK 19	TOUGHBOOK 31
PERFORMANCE FEATURES										
Operating System	Windows® 7 Professional <sup>1</sup>	Windows® 7 Professional <sup>2</sup>	Windows 8 Pro, Windows® 7 Professional	Windows® 7 Professional <sup>1,2</sup>	Windows® 7 Professional <sup>1,2</sup>	Android™ 4.0	Windows® 7 Professional <sup>2</sup>	Windows® 7 Professional <sup>1,2</sup>	Windows® 7 Professional <sup>1, 2</sup>	Windows® 7 Professional <sup>1,2</sup>
Convertible Laptop to Tablet			•						•	
Display Image Rotation			•			•	•	•	•	
Supports Touch			•		Select Models	•	•	•	•	•
Supports Gestures			•		Touchpad	•				
Supports Electronic Stylus (Digitizer)			•			•		•	Select Models	
Internal Optical Drive	•	•		•	•					Optional
Screen Size	12.1" HD+	14.1" WXGA+	12.5" HD	15.4" WUXGA	14.0" HD	10.1" XGA	5.6" WSVGA	10.1" XGA	10.1" XGA	13.1" XGA
Chipset	Intel® Core™ i5-3320M	Intel® Core™ i5-560M	Intel® Core™ i5-3427U	Intel® Core™ i5-3360M	Intel® Core™ i5-3320M	Marvel® ARMADA 2128	Intel® Atom™ Z530	Intel® Core™ i5-2557M	Intel® Core™ i5-3320M	Intel® Core™ i3-3360M, i5-3320M and i3-3110M
Dedicated Graphics				•						Select Models
Base Storage	320GB HDD (5400rpm)	320GB HDD (5400rpm)	500GB HDD (7200rpm)	500GB HDD (7200rpm)	elite (500GB 7200rpm) lite (320GB 5400rpm)	16GB Flash	64GB SSD	320GB HDD (7200rpm)	500GB HDD (7200rpm)	i5 (500GB 7200rpm) i3 (320GB 5400rpm)
Memory	4-8GB	4-6GB	4-8GB	4-16GB	4-8GB	1GB	2GB	4-8GB	4-8GB	i5 (4-8GB), i3 (2-8GB)
Weight (lbs.)	3.1	3.6	3.99 (3.64 <sup>3</sup> or 4.28 w/opt. batteries)	7.5	5.6-6.5	2.1	2.3	3.5	5.1	7.9-8.2
Battery Life <sup>4</sup>	14.5 hours	6.5 hours	11 hours (5 or 15 hours w/opt. batteries)	4 hours	7-11 hours	10 hours	9 hours	6.5 hours	9.5 hours	9-14.5 hours (Up to 21 hours w/opt. 2 <sup>nd</sup> battery) <sup>5</sup>
Hot-swappable Battery Design			•				•	•		
RUGGED FEATURES										
HDD Heater			Optional		Optional		n/a	•	•	•
Panasonic CircuLumin™ Technology					Select Models			•	•	• <sup>5</sup>
TransflectivePlus Display							•	•	•	
IP65 Certified <sup>6</sup>						•	•	•	•	•
MIL-STD-810G Certified <sup>6</sup>					•	•	•	•	•	•
Fanless or Hybrid Cooling System			•			•	•	•	•	•
Covered Ports				•	•	•	•	•	•	•
Anti-reflective Screen Treatment			•	•	•	•	•	•	•	•
Quick-release Hard Drive			•	•	•	n/a		•	•	•
Hand Strap/Handle		•	•	•	•		•	•	•	•
Flexible Hard Drive Connector	•	•	•	•	•	n/a	•	•	•	•
Shock-mounted HDD or SSD	•	•	•	•	•	n/a	•	•	•	•
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 6 sides)	1 ft (2.5 ft 6 sides)	3 ft	4 ft	6 ft <sup>6</sup>	6 ft <sup>6</sup>	6 ft <sup>6</sup>	6 ft <sup>6</sup>
3-year Warranty	•	•	•	•	•	•	•	•	•	•
Outdoor Viewability			Daylight		Sunlight (Select Models)	Daylight	Sunlight	Sunlight	Sunlight	Sunlight
WIRELESS FEATURES										
GPS Option					•	•	•	•	•	•
Field-upgradable Mobile Broadband	•	•	•	•	•				•	•
Mobile Broadband Option		3G Gobi	4G LTE or 3G Gobi		4G LTE or 3G Gobi	4G LTE		4G LTE or 3G Gobi	4G LTE or 3G Gobi	4G LTE or 3G Gobi
Wi-Fi	•	•	•	•	•	•	•	•	•	•
Bluetooth®	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> A full set of Windows 8 drivers are available at [panasonic.com/toughbook/support](http://panasonic.com/toughbook/support).  
<sup>2</sup> A full set of Windows XP drivers are available at [panasonic.com/toughbook/support](http://panasonic.com/toughbook/support).  
<sup>3</sup> Not including hand strap. Weight of hand strap is 1.2 oz.  
<sup>4</sup> Battery life, unless otherwise stated, is based on MobileMark.  
<sup>5</sup> Available on select models.  
<sup>6</sup> 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.



1.800.662.3537  
panasonic.com/toughbook

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