

## Panasonic recommends Windows 8.1 Pro



## TOUGHBOOK CF-54MK1

## SEMI-RUGGED HIGH PERFORMANCE PC

Panasonic has redefined the design of semi-rugged notebooks with the launch of its Toughbook CF-54. Created for a wide range of workers in areas such as the automotive diagnostic industry and field service workers specialising in repairs and maintenance, the new Toughbook CF-54 with Windows 8.1 Pro is one of the thinnest and lightest semi-rugged notebooks in its class. However, it doesn't compromise on durability, with a unique 'honeycomb' design for improved strength, MIL-STD 810G and a spill resistant keyboard and touchpad. In terms of flexibility, the Toughbook CF-54 is equally outstanding, offering a huge array of configuration options, making it effortless for customers to choose the exact device spec they need.

- Intel® Core™ i5-5300U vPro™ Processor
- Windows 8.1 Professional
- 14-inch IPS Full HD (1920 x 1080) LCD
- Optional 1000 nit sunlight viewable and glove enabled touchscreen
- Ergonomic design including integrated pull out handle for easy carriage
- Withstands drops from a height of 76cm\*
- Spill resistant keyboard and touchpad\*\*
- Robust magnesium alloy casing with shock-protected HDD
- Battery life up to 11 hours or up to 18 hours with optional second battery (mobile mark 2007)
- LAN, PC Card slot, Express card slot, SDXC card slot, USB 3.0 x3, Serial port, HDMI and VGA
- Optional configuration area (DVD or second battery or Smartcard Reader or PC Card)
- Optional configuration port (2nd LAN or dedicated GPS or 4th USB 2.0 or Rugged USB)
- Built-in security chip (TPM v1.2) for data protection

\* Carried out in Panasonic technical research lab. Test conducted in non-operating condition.

\*\* Spill resistance applies to all of the keyboard. It does not apply to the side panel, battery section, speakers, and DVD drive when it is open. The spill-resistant performance of the product does not guarantee that it will be free from damage or malfunction. If water is spilled onto it, be sure to have it repaired.


**TOUGHBOOK**
**Panasonic**

Panasonic recommends Windows 8.1 Pro

**TOUGHBOOK CF-54MK1**

SEMI-RUGGED REDEFINED



Breaking the mould for semi-rugged notebooks, the Toughbook CF-54 is only around 30mm thick and weighs just under 2kg. Equipped with Windows 8.1 Pro and the new 5th generation Intel® Core™ i5 vPro™ processor which delivers faster computing power, better graphics performance and lower power consumption than its 4th-generation counterpart, the Toughbook CF-54 sets a new benchmark.



Mobile Computing Platform	Intel® Core™ i5-5300U Processor 2.3GHz with Intel® Turbo Boost up to 2.9GHz, 3MB Cache	
Operating System	Windows 8.1 Pro 64-bit*	
RAM	8GB DDR3L SDRAM (max 8GB + 8GB)	
Graphics Chip	Intel® HD Graphics 5500 built-in chipset (optional AMD FirePro™ M5100**)	
Web Camera	2MP with stereo microphone	
Storage	500 GB SATA HDD, 5400rpm	
Display	14" IPS Full HD Display 1920 x 1080 TFT Display Up to 220cd/m <sup>2</sup> brightness (Performance model), 1000 cd/m <sup>2</sup> brightness (Touchscreen model)	
Optical Drive**	Optional DVD Multi Drive (SATA)	
Bluetooth®	Version 4.0 + EDR Class 1	
WLAN	IEEE WiFi 802.11 a/b/g/n (Intel Dual Band Wireless N 7260)	
4G/LTE Mobile Broadband (optional)**	Optional Sierra Wireless EM7305	
Sound	Built-in Stereo Speakers	
Interface Standard	LAN (RJ45 1000M/100M/10Mbps)	VGA
	PC Card /Express Card/SDXC Memory Card Slot	Headphone Output
	USB 3.0: x3	Microphone Input
	Serial (RS-232)	Docking Connector (dedicated 100-pin)
	HDMI	
Interface Options*	Configuration area: DVD (CF-WDM541) or second battery (CF-VZSU0KW) or Smartcard Reader (CF-WSC542) or PC card (CF-WPC541)	
	Configuration port: 2nd LAN (CF-WLN541) or dedicated GPS (CF-WGP541) or 4th USB 2.0 (CF-WUB541) or Rugged USB (CF-WUB541RG)	
	Optional dual antenna pass through (CF-WEW541)	Optional hot swappable battery
	Optional Fingerprint Reader (CF-WFP541)	Optional NFC (CF-WNF541)
Power	Standard Battery: Li-Ion 6 cell - CF-VZSU0PW	
	Second Battery: Li-Ion 6 cell - CF-VZSU0KW	
	Operating Time: Up to 11 hours or 18 hours (with optional second battery)	
	Charging Time: 2.5 hours	
Security Features	TPM (Trusted Platform Module, TCG V1.2 compliant), Integrated Kensington cable security lock slot, Optional SmartCard reader	
Physical Dimensions	272mm (W) x 345mm (H) x 30mm (D)	
Weight	Approx 1.9kg (Performance), 2.1kg (Touchscreen)	
Operating Temperature	-10° - 50° C	
Accessories	AC Adapter: CF-AA5713AM	
	Port Replicator: CF-VEB541 - USB 3.0 x2, USB 2.0 x2, Serial, LAN, VGA, HDMI, Kensington Lock	
	Battery Charger: CF-VCBTB2W	
	14" Screen Protective Film: CF-VPF25U	
	Stylus: FZ-VNPM11U	
	Tether: CF-VNT002U	
Ruggedness	Gravity drop resistance test: 76cm***	Spill Resistant Keyboard
	Shock mounted HDD with floating connectors	Magnesium Alloy Chassis
	MIL-STD-810G certified (76cm drop, shock, vibration, rain, dust, sand, altitude, high/low temperature, temperature shock, humidity)***	

Dealer Details:

\*Windows 7 Drivers available  
 \*\*Option combinations are varied. Please consult with your local rep for further info.  
 \*\*\*Carried out in Panasonic technical research lab. Test conducted in non-operating condition.  
 Intel, the Intel logo, Intel Core, Intel vPro, Core Inside and vPro Inside are trademarks of Intel Corporation in the U.S. and other countries. Microsoft® and Windows® are registered trademarks of Microsoft® Corporation of the United States and/or other countries. All other brand names shown are the registered trademarks of the relevant companies. All rights reserved.  
 All working conditions, times and figures quoted are optimum or ideal levels and may differ as a result of individual and local circumstances. Specifications are subject to change without notice.  
 Publication date: July 2015.