



## TOUGHBOOK CF-54 PREMIUM MODEL

### 14" SEMI-RUGGED WINDOWS 10 PRO NOTEBOOK WITH FULL HD DISPLAY AND TOUCH SCREEN

Toughbook CF-54 with Windows 10 Pro, Full HD with Touch screen, magnesium chassis, user replaceable battery and user replaceable storage is the thinnest and lightest 14" semi-rugged Toughbook ever built, but doesn't compromise on durability, with a unique 'honeycomb' design for improved strength and spill resistant keyboard & touchpad area.

In terms of flexibility, the Toughbook CF-54 is equally outstanding. It offers a huge array of configuration options, making it easier for customers to have exactly the device they want.

- Intel® Core™ i5-7300U vPro™ Processor
- Windows 10 Pro
- 14" IPS Full HD (1920 x 1080 pixels) Active Matrix (TFT) LCD
- Sunlight-viewable glove-enabled capacitive touchscreen (up to 1.000cd/m<sup>2</sup>)
- Lightweight and slim design (approx. 2.1kg and 29.8mm)
- 8GB RAM (max. 32GB) and 256GB SSD (128GB SSD is optional)
- 3x USB 3.0, 1x HDMI, 1x LAN and SD card slot as standard
- Configuration area (DVD as standard or 2nd battery\* or Smartcard reader\* or PC card\*)
- True serial port, VGA and 4G LTE\*
- Long battery life of up to 10 hours, with hot swap\* and second battery\* (up to 17 hours)
- Flexible configuration port\* (2nd LAN or d-GPS or 4th USB 2.0 or rugged USB)
- Operating temperature of -20 °C to +60 °C\*\* (HDD/SSD heater as standard)
- Robust honeycomb-style magnesium casing with carry handle
- Withstands drops from a height of 90cm\*\*
- Shock and vibration protected for vehicle docking



**TOUGHBOOK**



# MOBILE BUSINESS EXCELLENCE

## 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 10 Pro and the new 7th-generation Intel® Core™ i5 vPro™ Processor which delivers faster computing power, the Toughbook CF-54 sets a new benchmark. For those requiring even higher GPU performance discrete AMD Radeon™ Pro WX 4150 graphic is available as option.



Mobile Computing Platform	Intel® Core™ i5-7300U vPro™ processor (2.6GHz, 3MB Intel® Smart Cache)	
Operating System	Windows 10 Pro	
RAM	8GB (DDR4) SDRAM (max. 32GB)	
Graphic Chip	Intel® HD Graphics 620 Optional: AMD Radeon™ Pro WX 4150	
Storage	256GB SSD Optional: 128GB SSD	
LCD	14" IPS Active Matrix (TFT) colour LCD 1920 x 1080 pixels (Full HD) Sunlight-viewable glove-enabled capacitive touchscreen (up to 1.000cd/m²)	
Bluetooth™	4.1 + EDR Class 1	
Wireless LAN	Intel® Dual Band Wireless-AC 8265; slide on/off switch	
LAN	IEEE 802.3 10Base-T / IEEE 802.3u 100BASE-TX / IEEE 802.3ab 1000BASE-T (2nd LAN optional)	
Sound	WAVE and MIDI playback, Intel® High Definition Audio subsystem support	
Security	TPM (TCG V2.0 compliant) Password security (supervisor password, user password, hard disc lock) Integrated hardware security lock slot	
Webcam*	2MP with digital microphone	
Card Slots	SD/SDXC Memory Card:	x1
	RAM Module:	x2, DDR4L SDRAM, one slot occupied
Configuration area	DVD drive as standard (or PC card slot* (Type I or II) or 2nd battery* (6 cell, 32Wh) or Smart Card Reader*)	
Interfaces	USB 3.0	x3, 9-pin
	HDMI:	x1, Type A
	LAN:	x1, RJ-45 (2nd LAN optional)
	Headphones:	x1, Mini-jack, 3.5 DIA, stereo
	DC In:	Jack
	Port Replicator:	x1, 24-pin
	VGA port:	x1, Mini Dsub, 15-pin
	True Serial port:	x1, Dsub, 9-pin
	Configuration port*:	x1 (2nd LAN or Rugged USB 2.0 or dedicated GPS (u-blox) or 4th USB 2.0)
Power	AC Adapter:	Input: 100V – 240V, 50Hz/60Hz; Output: 15.6V, 7.05A
	Battery:	Lithium-Ion (6 cell, 46Wh)
	Battery Life:	Approx. 10 hours (Mobile Mark™ 2014), Approx. 17 hours with 2nd battery (6cell, 32Wh)*
	Power Management:	Hot swap*, Standby function, ACPI BIOS
Dimensions (WxHxD)	345mm x 272mm x 29.8mm / 13.6" x 10.7" x 1.17"	
Weight	Approx. 2.1 kg / 4.63 lb	
Project based Options*	Contactless Smart Card Reader or Fingerprint Reader, Smart Card Reader, 4G Mobile Broadband (LTE, up to 100Mbps), dedicated GPS (u-blox), Bridge battery for hot swap, Dual Pass through Antenna	
Standard Configuration	CF-54mk3 (Full HD with Touchscreen), 8GB RAM, 256GB SSD, DVD, VGA and Serial port	
Included in the box	AC adapter, Power Cord, Display cleaning cloth and User Manual	
Accessories	AC Adapter:	CF-AA5713A
	Battery Pack (Main battery, 6cell 46Wh):	CF-VZSU0PW
	Battery Charger:	CF-VCBTB3W
	Port-Replicator:	CF-VEB541U
	Stylus pen:	FZ-VNPM11U

CF-54mk3: 23.05.2017

\*Optional \*\*Tested by an independent third party lab following MIL-STD-810G and IEC 60529, Sections 13.4, 13.6.2, 14.2.5 and 14.3

As an ENERGY STAR® Partner, Panasonic Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency. Active Matrix colour display conforms to industry standards. Some displays may contain isolated illuminated or dark pixels as an artefact of the manufacturing process (effective pixels: minimum 99.998%). RAM capacity calculated as follows: 1MB = 1,048,576 bytes. HDD capacity calculated as follows: 1GB = 1,000,000,000 bytes. Toughbook is a brand name and registered trademark of Panasonic Corporation. Acrobat® is a registered trademark of Adobe® Systems Incorporated. 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.

Computer Product Solutions (CPS) BU, Panasonic System Communications Company Europe (PSCEU), Panasonic Marketing Europe GmbH, Hagenauer Straße 43, 65203 Wiesbaden (Germany).