



## TOUGHBOOK CF-53 TOUCHSCREEN

### THE PORTABLE SEMI RUGGEDIZED NOTEBOOK WITH HD TOUCHSCREEN.

Industry-leading balanced mobility combined with semi-rugged design features and state-of-the-art PC performance makes the CF-53 ideal for all semi-outdoor applications for mobile users.

- Intel® Core™ i5-4310U vPro Processor
- Windows 10 Pro  
Windows 7 Professional (available through downgrade rights from Windows 10 Pro)
- Intel HD 4400 graphics
- 14" HD Active Matrix (TFT) colour LCD
- Sunlight viewable resistive Touchscreen (up to 1.000cd/m<sup>2</sup>)
- Circulumin™ Display Technology
- Robust magnesium alloy display case
- Shock-protected HDD
- Integrated DVD Super Multi Drive
- Long battery life up to 15 hours
- USB 3.0 SuperSpeed and serial port
- 4G Mobile Broadband (LTE up to 100Mbps, optional)
- Dedicated GPS Module (U-Blox 8, optional)
- RFID Module (optional)
- 2nd Gigabit LAN, Firewire, rugged USB 2.0 or Modem (optional)
- Low temperature HDD option
- High capacity "road warrior" Battery option
- Withstands drops from a height of 76cm\*

\* Tested in Panasonic Factory.



**TOUGHBOOK**

# MOBILE BUSINESS EXCELLENCE

Powered by a fourth-generation Intel® Core™ i platform, the Toughbook CF-53 combines industry-leading balanced-mobility with semi-rugged Toughbook features. It is the ideal companion in all types of semi-outdoor environment and is designed for all mobile users looking for premium mobile business quality combined with rich computing power and first class connectivity.



Mobile Computing Platform	Intel® Core™ i5-4310U vPro™ processor (2.0GHz, 3MB Intel® Smart Cache)	
Operating System	Windows 10 Pro Windows 7 Professional (available through downgrade rights from Windows 10 Pro)	
RAM	4GB DDR3 SDRAM (max. 16GB)	
Graphic Chip	Intel® HD 4400 Graphics, UMA (Windows® 8.1 64bit max 1792MB)	
Storage	500GB (SATA)	
CD/DVD Drive	DVD Super Multi Drive	
LCD	14" Active Matrix (TFT) colour LCD 1366 x 768 pixels (HD) with sunlight viewable Touchscreen (up to 1.000cd/m²)	
Bluetooth™	4.0 + EDR Class 1	
Wireless LAN	Intel® Dual Band Wireless-AC 7260; slide on/off switch	
LAN	IEEE 802.3 10Base-T / IEEE 802.3u 100BASE-TX / IEEE 802.3ab 1000BASE-T (2nd LAN Project based)	
Modem (optional)	Data: 56 kbps (V.92) FAX: 14.4 kbps	
Sound	WAVE and MIDI playback, Intel® High Definition Audio subsystem support	
Security	TPM (TCG V1.2 compliant) Password security (supervisor password, user password, hard disc lock) Integrated hardware security lock slot	
Card Slots	PC Card:	x1, Type I or Type II
	ExpressCard:	x1, ExpressCard/34 or ExpressCard/54
	SD/SDXC Memory Card:	x1
	RAM Module:	x2, DDR3L SDRAM, one slot occupied
Interfaces	Serial (16550A compatible):	Dsub, 9-pin
	External display (VGA port):	Mini Dsub, 15-pin
	HDMI:	x1
	Headphones:	Mini-jack, 3.5 DIA, stereo
	Microphone:	Mini-jack, 3.5 DIA, stereo
	DC In:	Jack
	USB 2.0:	x2, 4-pin
	USB 3.0:	x2, 9-pin
	Rugged USB 2.0:	x1 (Project based)
	Firewire (IEEE1394a):	x1, 4-pin (Project based)
	Modem:	RJ-11 (Project based)
	LAN:	RJ-45 (2nd LAN Project based)
	Port Replicator:	100-pin
Input Devices	88 Keys / Touch Pad / resistive Touchscreen	
Power	AC Adapter:	Input: 100V ~ 240V, 50Hz/60Hz; Output: 15.6V, 7.05A
	Battery:	Lithium-Ion (10.8V, Typical 6750 mAh / Minimum 6300 mAh)
	Battery Life:	Approx. 15h (Mobile Mark™ 2007, 60cd/m²)
	Power Management:	Standby function, ACPI BIOS
Dimensions (WxHxD)	341mm x 48-55mm x 281mm / 13.6" x 1.9 - 2.2" x 11.2" (including carrying handle)	
Weight	Approx. 2.95kg / 6.50lb (including carrying handle)	
Webcam (optional)	720p with digital microphone	
Integrated Options	Fingerprint Reader, Smart Card Reader, 4G Mobile Broadband (LTE, up to 100Mbps), dedicated GPS (U-Blox 8), RFID	
Accessories	AC Adapter:	CF-AA5713A
	Battery Charger:	CF-VCBTB2W
	Battery Pack:	CF-VZSU71U ("road warrior" 9 cell, 73Wh) CF-VZSU46AU ("road warrior" 9 cell, 87Wh)
	Car Charger:	CF-LND1224A (120W)
	Port-Replicator:	CF-VEB531U
	Touchscreen Protection Film	CF-VPF17U
	Carrying Solutions:	Please visit <a href="http://www.toughbook.eu">www.toughbook.eu</a>

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.