



# TOUGHBOOK CF-53

## THE PORTABLE SEMI RUGGEDIZED NOTEBOOK WITH HD WIDESCREEN.

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 8.1 Pro
- Intel HD 4400 graphics
- 14" HD Active Matrix (TFT) colour LCD
- Robust magnesium alloy display case
- Shock-protected HDD
- Integrated DVD Super Multi Drive
- USB 3.0 SuperSpeed and serial port
- Long battery life up to 15 hours
- 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.

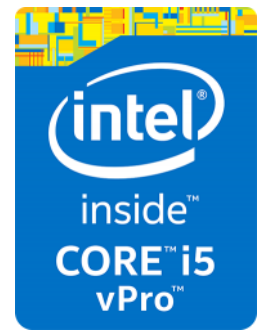


**TOUGHBOOK**

[www.toughbook.eu](http://www.toughbook.eu)

# MOBILE BUSINESS EXCELLENCE

The CF-53 is equipped with a fourth-generation Intel® Core™ i platform and Windows 8.1 Pro. Designed for all mobile professionals, including small and medium-sized business users, looking for outstanding value and mission-critical application access, it represents core Toughbook benefits combined with semi-rugged protection.



|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Mobile Computing Platform  | Intel® Core™ i5-4310U vPro™ processor<br>(2.0GHz, 3MB Intel® Smart Cache)                                                                                                                                                                                                                                                                                                                                                                       |  |
| Operating System           | Windows 8.1 Pro<br>Windows® 7 Professional                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| 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)                                                                                                                                                                                                                                                                                                                                                                                       |  |
| 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, Integrated hardware security lock slot                                                                                                                                                                                                                                                                                                                                                             |  |
| Card Slots                 | PC Card: x1, Type I or Type II*<br>ExpressCard: x1, ExpressCard/34 or ExpressCard/54*<br>SD/SDXC Memory Card: x1<br>RAM Module: x2, DDR3L SDRAM, one slot occupied                                                                                                                                                                                                                                                                              |  |
| Interfaces                 | Serial (16550A compatible): Dsub, 9-pin<br>External display (VGA port): Mini Dsub, 15-pin<br>HDMI: x1<br>Headphones: Mini-jack, 3.5 DIA, stereo<br>Microphone: Mini-jack, 3.5 DIA, stereo<br>DC In: Jack<br>USB 2.0: x2, 4-pin<br>USB 3.0: x2, 9-pin<br>Rugged USB 2.0: x1 (Project based)<br>Firewire (IEEE1394a): x1, 4-pin (Project based)<br>Modem: RJ-11 (Project based)<br>LAN: RJ-45 (2nd LAN Project based)<br>Port Replicator: 100-pin |  |
| Keyboard / Pointing Device | 88 keys / Touch Pad                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| Power                      | AC Adapter: Input: 100V ~ 240V, 50Hz/60Hz; Output: 15.6V, 7.05A<br>Battery: Lithium-Ion (10.8V, Typical 6750 mAh / Minimum 6300 mAh)<br>Battery Life: Approx. 15h (Mobile Mark™ 2007, 60cd/m²)<br>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. 2.65 kg / 5.84 lb (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<br>Battery Charger: CF-VCBTB2W<br>Battery Pack: CF-VZSU71U ("road warrior" 9 cell, 73Wh)<br>CF-VZSU46AU ("road warrior" 9 cell, 87Wh)<br>Car Charger: CF-LND1224A (120W)<br>Port-Replicator: CF-VEB531U<br>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.

\* Config. A: 1x PC Card Type I or II + 1x ExpressCard - Config. B:: 2x PC Card Type I or II, no ExpressCard

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

**Panasonic**  
BUSINESS

[www.toughbook.eu](http://www.toughbook.eu)