

Windows®. Life without Walls™.  
Panasonic recommends Windows 7.

**Panasonic**  
ideas for life



## THE SEMI RUGGEDIZED, ALL-ROUND NOTEBOOK WITH WIDESCREEN.

**TOUGHBOOK CF-52.**

The CF-52 is the ideal all-round notebook when you are on the move or in the office. As a Toughbook, it comes up with a range of "ruggedized" features protecting its key components against vibrations and even falls from a height of up to 76cm\*. The display is surrounded by dampers and is mounted in a durable magnesium case. The hard disk drive is embedded in a shock-absorbing foam and is connected to the motherboard by flexible cabling. The splash resistant keyboard and touchpad helps to stop water or any other liquid from entering the casing and causing internal damage, while rubber port covers protect all sensitive external connections.

- Genuine Windows®7 Professional Downgrade option to Genuine Windows® XP Professional Service Pack3
- Intel® Core™ i5-540M vPro™ processor Technology
- ATI Mobility Radeon™ HD 5650
- 15.4" WUXGA Active Matrix (TFT) colour LCD
- Robust magnesium alloy display case
- Shock-protected, easily removable HDD
- Integrated DVD Multi Drive
- Firewire (IEEE 1394a), USB 2.0 and serial port
- Battery life up to 4 hours
- Withstands drops from a height of 76cm\*

\* Tested in Panasonic Factory.



**Protect.  
Manage.**

**TOUGHBOOK** When it's worth doing better.

# MOBILE BUSINESS EXCELLENCE



The CF-52 has a bright 15.4" widescreen LCD in 16:10 format with WUXGA resolution - particularly beneficial when displaying complex graphics. Intel® Core i5 Processor Technology, a weight of only 3.4kg and the integrated carrying handle provide maximum working flexibility. Two Diversity WLAN antennas ensure optimal reception at all times, and finally, state-of-the-art energy-saving components combined with the CF-52's durable battery enable a running time of up to 4 hours.



|                            |                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU/Secondary cache memory | Intel® Core™ i5-540M vPro™ processor (2.53 Ghz, Intel® Smart Cache 3 MB)                                                                                                                                                                                                                                                                                          |
| Operating System           | Genuine Windows® 7 Professional<br>(Downgrade option to Genuine Windows® XP Professional Service Pack3)                                                                                                                                                                                                                                                           |
| Main Memory                | 2 GB, DDR3 SDRAM (4 GB Max.)                                                                                                                                                                                                                                                                                                                                      |
| Chipset                    | Mobile Intel® QM57 Express Chipset                                                                                                                                                                                                                                                                                                                                |
| Graphic Chip               | ATI Mobility Radeon™ HD 5650                                                                                                                                                                                                                                                                                                                                      |
| Video Memory               | 512MB dedicated RAM                                                                                                                                                                                                                                                                                                                                               |
| Hard Disk Drive            | 250 GB                                                                                                                                                                                                                                                                                                                                                            |
| CD/DVD Drive               | DVD MULTI Drive                                                                                                                                                                                                                                                                                                                                                   |
| Display Method             | 15.4" Active Matrix (TFT) colour LCD 1920 x 1200 pixels (WUXGA)                                                                                                                                                                                                                                                                                                   |
| Wireless LAN               | Intel® Centrino® Advanced-N 6200 AGN                                                                                                                                                                                                                                                                                                                              |
| Bluetooth™                 | 2.1 + EDR                                                                                                                                                                                                                                                                                                                                                         |
| LAN                        | IEEE 802.3 10Base-T / IEEE 802.3u 100BASE-TX / IEEE 802.3ab 1000BASE-T                                                                                                                                                                                                                                                                                            |
| Modem                      | Data: 56 kbps (V.92) FAX: 14.4 kbps                                                                                                                                                                                                                                                                                                                               |
| Sound                      | WAVE and MIDI playback, Intel® High Definition Audio subsystem support                                                                                                                                                                                                                                                                                            |
| Security Chip              | TPM (TCG V1.2 compliant) Password security (supervisor password, user password, hard disc lock) Integrated hardware security lock slot                                                                                                                                                                                                                            |
| Card Slots                 | PC Card Slot x 1, Type I or Type II, Allowable current 3.3 V: 400 mA, 5 V: 400 mA<br>ExpressCard Slot x 1, ExpressCard/34 or ExpressCard/54<br>SD/SDHC Memory card slot x 1<br>RAM Module Slot x 2, DDR3 SDRAM, 204-pin, 1.8 V, SO-DIMM, PC3-8500 Compliant, one slot occupied                                                                                    |
| Interfaces                 | Serial (16550A compatible) Dsub, 9-pin<br>External display (VGA port) Mini Dsub, 15-pin<br>Headphones Mini-jack, 3.5 DIA, stereo<br>Microphone Mini-jack, 3.5 DIA, stereo<br>DC input Jack<br>USB 2.0 4 x 4-pin<br>Firewire (IEEE1394a) 1 x 4-pin<br>Modem RJ-11<br>LAN RJ-45<br>Port replicator 100-pin                                                          |
| Keyboard / Pointing Device | 87 keys / Touch Pad                                                                                                                                                                                                                                                                                                                                               |
| Power Supply               | AC adaptor or Battery pack                                                                                                                                                                                                                                                                                                                                        |
| AC Adaptor                 | Input: 100 V-240 V AC, 50 Hz/60 Hz, Output: 15.6 V DC, 7.05 A                                                                                                                                                                                                                                                                                                     |
| Power                      | AC Adapter Input: 100V - 240V, 50Hz/60Hz; Output: 15.6V, 7.05A<br>Battery Lithium-Ion (11.1V, 7.8Ah)<br>Battery life Approx. 4.0h (Windows® 7 model, Mobile Mark™ 2007, LCD brightness: 60cd/m2)<br>Charging time Approx. 4.0h (Power on)<br>Power Consumption Approx. 60W - max. 100W (maximum when recharging)<br>Power Management Standby function, ACPI BIOS  |
| Dimensions (W x H x D)     | 355.7mm x 50.7-51.9mm x 286.8mm/14.0" x 2.0" x 11.3" (including carrying handle)                                                                                                                                                                                                                                                                                  |
| Weight                     | Approx. 3.4 kg/7.5 lb (including carrying handle)                                                                                                                                                                                                                                                                                                                 |
| Software                   | Adobe Reader, PC Information Viewer, Loupe Utility, Bluetooth™ Stack for Windows® by TOSHIBA, Wireless Switch Utility, Wireless Connection Disable Utility, Hotkey Settings, Battery Recalibration Utility, Infineon TPM Professional Package, Apto Setup Utility, Hard Disk Data Erase Utility, PCDiagnostic Utility, Roxio Creator LJB, WinDVD® 8 (DEM Version) |
| Accessories                | AC Adapter CF-AA5713A<br>Battery charger CF-VCS1B1U<br>Battery pack CF-VZSU29ASU<br>Port replicator CF-VEB522W                                                                                                                                                                                                                                                    |

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, Intel Inside, the Intel Inside logo, Core, Intel Centrino, and the Intel Centrino logo are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States 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.

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