

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



TOUGHBOOK CF-52

When it's worth doing better.

Tough, high-performance mobile PC with
15.4" wide LCD that's even great for the office

OS	Genuine Windows® 7 Professional
CPU	Intel® Core™ i5-520M (2.4 GHz, L3 3MB, vPro™)
Colour TFT-LCD	15.4" WXGA
HDD	160 GB*2
RAM	2 GB*1 (8 GB Max)

Handle for increasing efficiency when operating in the field.



Easy hard disk removal and security functions for hard disk protection.



Passed a 76 cm free-fall test*3 and a 100-kgf pressurised vibration test*4.



Spill-resistant keyboard*5.



Built-in security chip (TPM)*6 for data protection.

Bluetooth® (Ver.2.1 +EDR/Class1) for easy communication and connectivity with peripherals.

*1 1 MB = 1,048,576 bytes/1 GB = 1,073,741,824 bytes. *2 The HDD is 1 GB (1,000,000,000 bytes) in capacity. The actual capacity may be less than displayed, depending on the OS and application software. *3 Carried out in Panasonic technical research lab. Test conducted in non-operating condition. *4 Carried out in a Panasonic laboratory in non-operation mode. Vibration with pressure of 980 N (100 kgf) is applied uniformly over the top and bottom faces. *5 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. (Note that a fee will be charged for this repair service.) *6 Installation of Infineon TPM Professional Package is required to use this feature.
* The shock resistance, pressure resistance, and splash-proof functions are not a guarantee against damage or malfunction.

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The new Panasonic Toughbook CF-52

- DURABILITY FEATURES**
- Passed a 76 cm free-fall test¹ and a 100 kgf pressurised vibration test².
 - Spill resistant keyboard³.
 - Shock Mounted HDD

- SOFTWARE**
- Genuine Windows® 7 Professional (with XP downgrade option)
 - Setup, Diagnostics, PC Information Viewer, Online Reference Manual, Adobe® Reader, Battery Recalibration Utility, Hard Disk Data Erase Utility, Recovery DVD, WinDVD® 8, Roxio Creator® LJB

- CPU & DISPLAY**
- Intel® Core™ i5-520M Processor (2.4GHz, L3 3MB, vPro™)
 - 15.4" widescreen 1280 x 800 WXGA LCD
 - Intel® QM57 video controller, max. 1024MB UMA VRAM on XP3
 - External video support
 - Anti-glare screen treatment
 - Anti-reflective screen treatment*

- STORAGE & MEMORY**
- 2GB SDRAM (DDR3) standard, expandable to 8GB⁴
 - Shock-mounted flex-connect hard drive with quick-release
 - 160GB hard drive⁴

- AUDIO**
- Intel® high-definition audio compliant
 - Integrated stereo speakers
 - Convenient keyboard volume and mute controls

- KEYBOARD & INPUT**
- 87-key with dedicated Windows® key
 - Electrostatic touchpad with scrolling support

- MULTIMEDIA POCKET**
- DVD Super MULTI Drive with Dual Layer Support

- EXPANSION SLOTS**
- PC card type II x 1
 - SD card (SDHC)
 - ExpressCard/54 x 1

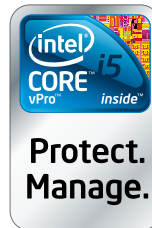
- INTERFACE**
- | | |
|--------------------------|-------------------|
| • Port replicator | Dedicated 100-pin |
| • External video | D-sub 15-pin |
| • Headphones/speaker | Mini-jack stereo |
| • Microphone/line in | Mini-jack stereo |
| • Serial | D-sub 9-pin |
| • USB 2.0 (x 4) | 4-pin |
| • IEEE 1394a (FireWire)* | 4-pin |
| • 10/100/1000 Ethernet | RJ-45 |
| • 56K Modem* | RJ-11 |

- WIRELESS**
- Optional integrated 3G WWAN
 - Intel® Centrino® Advanced-N 6200 802.11a/b/g/n
 - Bluetooth® Class 1, v2.1 + EDR
 - Security
 - Authentication: LEAP, WPA, 802.1x, EAP-TLS, EAP-FAST, PEAP
 - Encryption: CKIP, TKIP, 128-bit and 64-bit WEP, Hardware AES
 - Slide on/off switch

- POWER SUPPLY**
- Battery operation⁵: 8-9 hours
 - Li-Ion battery pack (11.1V, typical 7800mAh, minimum 7500mAh) 8100mAh)
 - Battery charging time: approximately 4 hours*
 - AC Adapter: AC 100V-240V 50/60Hz, auto sensing/switching worldwide power supply
 - Pop-up on-screen battery status reporting

- POWER MANAGEMENT**
- Suspend/Resume Function, Hibernation, Standby, ACPI BIOS

- SECURITY FEATURES**
- Password Security: Supervisor, User, Hard Disk Lock
 - Cable lock slot
 - Trusted platform module (TPM) security chip v.1.24
 - Computrace® theft protection agent⁶
 - Optional fingerprint reader
 - Optional SmartCard reader



- **15.4" Widescreen**
- **Magnesium Alloy Case with Handle**
- **Shock-mounted Flex-connect Hard Drive**
- **Drop and spill resistant**
- **3G WWAN Ready**

- WARRANTY**
- 3-year limited warranty, parts and labour

- DIMENSIONS & WEIGHT**
- 35.6 (L) x 28.7 (W) x 5.2cm (H) w/handle
 - 3.4Kg

INTEGRATED OPTIONS⁶

- 3G WWAN
- SmartCard reader
- Fingerprint reader

ACCESSORIES⁶

- | | |
|--------------------------------------|--------------|
| • AC Adapter (3-pin) | CF-AA5803AM |
| • Battery Charger | CF-VCBTB1W |
| • Desktop Port Replicator | CF-VEBS22W |
| • Long Life Lithium Ion Battery Pack | CF-VZSU29ASU |
| • RAM | |
| – 2GB DDR3 (i5 CPU models only) | CF-WMBA902G |
| – 4GB DDR3 (i5 CPU models only) | CF-WMBA904G |

Please consult your reseller or Panasonic representative before purchasing.

- Carried out in a Panasonic technical research Lab. Test conducted in non-operation conditions.
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- Spill resistance applies to all of the keyboard. It does not apply to the side panel, battery section, 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 (Note that a fee will be charged for this repair service).
- Total usable memory will be less depending upon actual system configuration. 8GB of memory is not available on all models and operating systems. 1GB = 1,000,000,000 bytes.
- Battery performance features such as charge time and life span can vary according to the conditions under which the computer and battery are used. Battery operation and recharge times will vary based on many factors including screen brightness, applications, features, power management, battery conditioning and other customer preferences. Battery testing results from MobileMark 2007.
- Requires software and activation to enable theft protection.
- Accessories and Integrated Options may vary depending on your notebook configuration.

*Not available on P8400 model with lightweight battery standard.

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