



Panasonic recommends Windows® 7.

## TOUGHBOOK 52

- 15.4" Widescreen Display
- Desktop-class Performance
- Magnesium Alloy Case with Handle
- Shock-mounted Flex-connect Hard Drive
- Drop and Spill-resistant
- 3G Mobile Broadband-ready Design

### The only full-power desktop replacement laptop with legendary Toughbook durability.

Panasonic's semi-rugged Toughbook® 52 leads the way in reliability and performance, whether on your desk or on the road. With a 15.4" high-resolution WUXGA widescreen and discrete graphics, it's the ultimate business tool for group presentations and advanced technology to run multiple applications without a hitch. Intel® vPro™ processors add increased security and enhanced remote management lets you work seamlessly pretty much anywhere.



## Panasonic recommends Windows® 7.



### SOFTWARE

- Genuine Windows® 7 Professional (32-bit)<sup>1</sup> or Genuine Windows® 7 Professional (64-bit)<sup>1</sup>
- Panasonic Utilities, Recovery Partition

### CPU

- Intel® Core™ i5-3360M vPro™ Processor
  - 2.8GHz with Turbo Boost up to 3.5GHz
  - Intel Smart Cache 3MB

### STORAGE & MEMORY

- 4GB SDRAM (DDR3L-1333MHz), expandable to 16GB<sup>2,3</sup>
- Shock-mounted flex-connect hard drive with quick-release
  - 500GB 7200rpm<sup>3</sup>

### DISPLAY

- 15.4" widescreen WUXGA 1920 x 1200
- Anti-reflective and anti-glare screen treatments
- Video controllers
  - ATI Radeon™ HD7750M (512MB dedicated VRAM)<sup>4</sup>
  - Intel® QM77 (max. 1915MB shared VRAM with 32-bit)<sup>4</sup>
- External video support up to 1920 x 1200 at 16.7 million colors

### AUDIO

- Intel® high-definition audio compliant
- Integrated stereo speakers
- Keyboard volume and mute controls

### KEYBOARD & INPUT

- 87-key with dedicated Windows® key
- Electrostatic touchpad with scrolling support

### MULTIMEDIA BAY

- DVD Super MULTI Drive

### EXPANSION SLOTS

- PC card type II x 1
- SD card (SDXC)
- ExpressCard/54 x 1

### INTERFACE

- |                                |                   |
|--------------------------------|-------------------|
| ■ Docking connector            | Dedicated 100-pin |
| ■ VGA                          | D-sub 15-pin      |
| ■ Headphones/speaker           | Mini-jack stereo  |
| ■ Microphone/line in           | Mini-jack stereo  |
| ■ Serial                       | D-sub 9-pin       |
| ■ USB 3.0 (x 2), USB 2.0 (x 2) | 4-pin             |
| ■ IEEE 1394a (FireWire)        | 4-pin             |
| ■ 10/100/1000 Ethernet         | RJ-45             |
| ■ 56K Modem                    | RJ-11             |

### WIRELESS

- Intel® Centrino® Advanced-N 6235 802.11a/b/g/n
- Bluetooth® v4.0 + EDR (Class 1)
- 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 operation: 4 hours<sup>5</sup>
- Long life Li-Ion battery pack (10.8V, typical 6750mAh, minimum 6300mAh)
- Battery charging time: 2 hours<sup>5</sup>
- AC Adapter: AC 100V–240V 50/60Hz, auto sensing/switching worldwide power supply

### POWER MANAGEMENT

- Suspend/Resume Function, Hibernation, Standby, ACPI BIOS

### SECURITY FEATURES

- Password Security: Supervisor, User, Hard Disk Lock
- Kensington cable lock slot
- Trusted platform module (TPM) security chip v.1.2
- Computrace® theft protection agent in BIOS<sup>6</sup>
- Intel® Anti-Theft Technology
- Optional fingerprint reader
- Optional SmartCard reader

### WARRANTY

- 3-year limited warranty, parts and labor

### DIMENSIONS & WEIGHT

- 11.3"(L) x 14.0"(W) x 2.0"(H)
- 7.5 lbs.



### INTEGRATED OPTIONS<sup>7</sup>

- SmartCard reader
- Fingerprint reader

### SELECT ACCESSORIES<sup>7</sup>

- |  |                |
|--|----------------|
| ■ AC Adapter (3-prong)                                 | CF-AA5713AM    |
| ■ Lithium Ion Battery Pack                             | CF-VZSU71U     |
| ■ Battery Charger                                      | CF-VCBTB2W     |
| ■ LIND 3-Bay Battery Charger                           | PACH329-1857-P |
| ■ LIND Car Adapter 120W                                | CF-LNDCC120    |
| ■ LIND Car Adapter 120W                                |                |
| Mounting Bracket                                       | CF-LNDBRK120   |
| ■ LIND Shutdown Timer                                  | CF-LNDLPT      |
| ■ InfoCase ComUniversal Carrying Case (large capacity) | TBCCOMUNV-P    |
| ■ InfoCase ComUniversal Roller                         | TBCRLR-P       |
| ■ InfoCase Backpack                                    | TBCBPK-P       |
| ■ InfoCase Always-on 52 Case                           | TBCS2AOCOS-P   |
| ■ Desktop Dock   | CF-VEB522M     |
| ■ Memory Cards   |                |
| – 4GB DDR3   | CF-WMBA1104G   |
| ■ DisplayPort to HDMI Adapter                          | TTDPHDMI       |

Please consult your reseller or Panasonic representative before purchasing.

<sup>1</sup>A full set of Windows XP drivers are available at [panasonic.com/toughbook/support](http://panasonic.com/toughbook/support).

<sup>2</sup>Total usable memory will be less depending upon actual system configuration.

<sup>3</sup>1GB = 1,000,000,000 bytes.

<sup>4</sup>The size of the VRAM cannot be set by the user and varies by operating system as well as size of RAM. Windows 7 64-bit max. VRAM is 2283MB with 4GB of memory.

<sup>5</sup>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.

<sup>6</sup>Requires software and activation to enable theft protection.

<sup>7</sup>Accessories and Integrated Options may vary depending on your notebook configuration. Visit Panasonic website for more accessories and details.

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**[sales@mruggedmobile.com](mailto:sales@mruggedmobile.com)**  
**847-870-3805**

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