Panasonic
ideas for life

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

THE TOUGHBOOK

53

ENHANCED PERFORMANCE AND VERSATILITY FROM THE ORIGINAL SEMI-RUGGED LAPTOP MANUFACTURER.

In 1998, Panasonic created the first semi-rugged computer. Now, Panasonic introduces the latest generation, the Panasonic Toughbook® 53. With a 14" HD LED display, the latest Intel® Core™ processors and an oversized multi touch touchpad, it performs like a desktop. Options for a sunlight-viewable Panasonic CircuLumin™ touchscreen, backlit keyboard, 4G LTE mobile broadband, an integrated webcam and enhanced connectivity make this the most versatile semi-rugged PC ever.

- 14" High Definition (720p) LED Display

- Sunlight-viewable Touchscreen with Panasonic CircuLumin™ Technology[1]

- Oversized Touchpad with Multi Touch

- Magnesium Alloy Case with Handle

- Drop and Spill-resistant

- Choice of 3G Gobi™ or 4G LTE Mobile Broadband

MIL-STD 810G

3-FOOT DROP RATING

1.800.662.3537	panasonic.com/toughbook/53
SOLUTIONS	**IS OUR MIDDLE NAME**

TOUGHBOOK

Panasonic Solutions Company

DURABILITY
- MIL-STD-810G certified (3' drop, shock, vibration, dust, altitude, high/low temperature, temperature shock, humidity)
- Spill-resistant keyboard
- Optional hard drive heater
- Magnesium alloy case with handle
- Shock-mounted flex-connect hard drive with quick-release
- Pre-installed replaceable screen film[1]

SOFTWARE
- Genuine Windows® 7 Professional 32-bit[2] or Genuine Windows® 7 Professional 64-bit[2]
- Panasonic Utilities, Recovery Partition

CPU
- Intel® Core™ i5-2520M vPro™ Processor
  - 2.5GHz with Turbo Boost up to 3.2GHz
  - Intel Smart Cache 3MB
- Intel® Core™ i3-2310M Processor
  - 2.1GHz
  - Intel Smart Cache 3MB

STORAGE & MEMORY
- i5 models: 4GB SDRAM (DDR3-1333MHz), expandable to 8GB[3,4]
- i3 model: 2GB SDRAM (DDR3-1333MHz), expandable to 8GB[3,4]
- Shock-mounted flex-connect hard drive with quick-release
  - 320GB 7200rpm (i5 models), 320GB 5400rpm (i3 model)[4]
  - Optional 128GB and 256GB reinforced flex-connect SSD[4]

DISPLAY
- 14.0" High Definition (720p) LED 1366 x 768
- Optional touchscreen (i5 model only)
  - Panasonic CircuLumin™ technology (2-800 nit, AR and AG screen treatments, circular polarizer)
- Anti-reflective and anti-glare screen treatments (AG only on i3 model)
- Video controller: Intel® QM67 (i5 models), Intel® HM65 (i3 model)
  - max. 1428MB shared VRAM with 32-bit[5]
- External video support up to 1920 x 1200 at 16.7 million colors
- Concealed mode

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

KEYBOARD & INPUT
- Touchscreen with integrated stylus holder[1]
- 87-key with dedicated Windows® key
- Oversized electrostatic touchpad with multi touch 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
HDMI	Type A
VGA	D-sub 15-pin
Headphones/speaker	Mini-jack stereo
Microphone/line in	Mini-jack stereo
Serial	D-sub 9-pin
USB 3.0 (x1), USB 2.0 (x3)	4-pin
Optional IEEE 1394a (FireWire)	4-pin
10/100/1000 Ethernet	RJ-45
Optional 10/100 2nd LAN Ethernet	RJ-45
Optional 56K Modem	RJ-11

WIRELESS
- Optional integrated LTE 4G mobile broadband (Fall 2011)
- Optional integrated Gobi™2000 3G mobile broadband
- Intel® Centrino® Advanced-N 6205 802.11a/b/g/n (i5 models)
- Atheros AR9285 802.11b/g/n (i3 model)
- Optional Bluetooth® v2.1 + 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
- Optional dual high-gain antenna pass-through
- Slide on/off switch

POWER SUPPLY
- Battery operation[6]
  - i5 models—10 hours (long life battery)
  - i3 model—7 hours (lightweight battery)
- Long life Li-Ion battery pack (10.8V, typical 6750mAh, minimum 6300mAh)
- Lightweight Li-Ion battery pack (10.8V, typical 4500mAh, minimum 4200mAh)
- Battery charging time: 2 hours[6]
- 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 (i5 models)
- Computrace® theft protection agent in BIOS[7]
- Intel® Anti-Theft Technology (i5 models)
- Optional fingerprint reader
- Optional SmartCard reader

WARRANTY
- 3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT
- 11.1"(L) x 13.4"(W) x 1.8-2.2"(H)
- 5.6 lbs. (i3 model), 5.8 lbs. (i5 model), 6.5 lbs. (touch model)

INTEGRATED OPTIONS[8]
- LTE 4G mobile broadband (Fall 2011)
- Gobi™2000 3G mobile broadband (EV-DO Rev. A, HSPA)
- 1.3MP webcam and digital mic
- Backlit emissive keyboard
- 2nd LAN (10/100) or FireWire or Modem or Dual antenna pass-through
- SmartCard reader
- Fingerprint reader
- Hard drive heater
- 128GB and 256GB solid state drives (SSD)

ACCESSORIES[8]
AC Adapter (3-prong)	CF-AA5713AM
Long Life Battery Pack	CF-VZSU71U
Lightweight Battery Pack	CF-VZSU72U
Battery Charger	CF-VCBTB2W
LIND 3-Bay Battery Charger	PACH329-1857-P
LIND Car Adapter 120W	CF-LNDDC120
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 53 Case	TBC53AOCS-P
Memory Cards	
– 2GB DDR3	CF-WMBA1002G
– 4GB DDR3	CF-WMBA1004G
Desktop Dock	CF-VEB531U
Havis Vehicle Dock	
– no pass-through	DS-PAN-411
– dual pass-through	DS-PAN-411-2
Touchscreen Replacement Stylus	CF-VNP009U
Tether	CF-VNT002U
14.0" LCD Protector Film	CF-VPF17U

Please consult your reseller or Panasonic representative before purchasing.

[1] Touchscreen model only.

[2] A full set of Windows XP drivers are available at panasonic.com/toughbook/support.

[3] Total usable memory will be less depending upon actual system configuration.

[4] 1GB = 1,000,000,000 bytes.

[5] 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 1696MB with 4GB of memory.

[6] 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.

[7] Requires software and activation to enable theft protection.

[8] Accessories and Integrated Options may vary depending on your notebook configuration.

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Financing options now available from Panasonic Finance Solutions; please call number above for more details.

TOUGHBOOK

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