Panasonic
ideas for life

intel *inside*™
CORE ™ **i5** vPro™

Panasonic recommends Windows® 7.

TOUGHBOOK 53

- 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

- Optional 4G LTE or 3G Gobi™ Mobile Broadband

Enhanced performance and versatility from the original semi-rugged laptop manufacturer.

In 1998, Panasonic created the first semi-rugged computer. Today, the Panasonic Toughbook® 53 features a 14" HD LED display, the latest Intel® Core™ processors and an oversized multi touch touchpad. Options for a sunlight-viewable Panasonic CircuLumin™ touchscreen, backlit keyboard, GPS receiver, 4G LTE mobile broadband, integrated webcam and choice of insertable or contactless SmartCard reader, make this the most versatile semi-rugged PC ever.

Panasonic

3-FOOT DROP RATING

MIL-STD-810G

1.800.662.3537
panasonic.com/toughbook/53

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[3]
- Intel® Core™ i5-3320M vPro™ Processor
  – 2.6GHz with Turbo Boost up to 3.3GHz
  – Intel Smart Cache 3MB

STORAGE & MEMORY
- 4GB SDRAM (DDR3L-1333MHz), expandable to 16GB[4,5]
- Shock-mounted flex-connect hard drive with quick-release
  – 500GB 7200rpm (Elite model), 320GB 5400rpm (Lite model)[5]
  – Optional hard drive heater
  – Optional 128GB, 256GB and 512GB reinforced flex-connect SSD with heaters[5]

DISPLAY
- 14.0" High Definition (720p) LED 1366 x 768
- Optional touchscreen[6]
  – Panasonic CircuLumin™ technology
    (2-850 nit, AR and AG screen treatments, circular polarizer)
- Anti-reflective and anti-glare screen treatments
- Video controller: Intel® QM77
  – max. 1428MB shared VRAM with 32-bit[7]
- External video support up to 1920 x 1200 at 16.7 million colors
- Concealed mode (configurable)

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
- Optional backlit emissive keyboard

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 (x 2), USB 2.0 (x 2)	4-pin
Optional IEEE 1394a (FireWire)[6,8]	4-pin
10/100/1000 Ethernet	RJ-45
Optional 10/100 2nd LAN (Ethernet)[6,8]	RJ-45
Optional 56K Modem[6,8]	RJ-11

WIRELESS
- Optional integrated 4G LTE mobile broadband
- Optional integrated 3G Gobi™3000 mobile broadband
- Intel® Centrino® Advanced-N 6205 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
- Optional dual high-gain antenna pass-through[8]
- Slide on/off switch

POWER SUPPLY
- Battery operation[9]
  – Elite model—11 hours (long life battery)
  – Lite model—7 hours (lightweight battery)
- Battery charging time: 2 hours[9]
- Long life Li-Ion battery pack (10.8V, typical 6750mAh, minimum 6300mAh)
- Lightweight Li-Ion battery pack (10.8V, typical 4500mAh, minimum 4200mAh)
- 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[10]
- Intel® Anti-Theft Technology
- Optional fingerprint reader[6,11]
- Optional insertable SmartCard reader
- Optional 13.56MHz contactless SmartCard/RFID reader[6,11]
  – ISO 15693 and 14443 A/B compliant

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. (Lite model), 5.8 lbs. (Elite model), 6.5 lbs. (Elite model with touch)

INTEGRATED OPTIONS[12]
- 4G LTE mobile broadband
- 3G Gobi™3000 mobile broadband (EV-DO Rev. A, HSPA)
- GPS receiver[6,8]
- 1.3MP webcam and digital mic[6]
- Backlit emissive keyboard
- 2nd LAN (10/100) or FireWire or RJ-11 Modem or Dual antenna pass-through[6,8]
- Insertable SmartCard reader
- Contactless SmartCard/RFID reader[6,11]
- Fingerprint reader[6,11]
- Hard drive heater
- 128GB, 256GB and 512GB solid state drives (SSD) with heaters

SELECT ACCESSORIES[12]
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
ToughMate ComUniversal Carrying Case (large capacity)	TBCCOMUNV-P
ToughMate ComUniversal Roller	TBCRLR-P
ToughMate Backpack	TBCBPK-P
ToughMate Always-on 53 Case	TBC53AOCS-P
Memory Card	
– 4GB DDR3	CF-WMBA1104G
Desktop Dock	CF-VEB531U
Gamber-Johnson Vehicle Docks	
– no electronics	7160-0415
– no pass-through	7160-0393-00-P
– dual pass-through	7160-0393-02-P
Havis Vehicle Docks	
– no pass-through	DS-PAN-411-P
– dual pass-through	DS-PAN-411-2-P
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]An Intel® Core™ i7 processor is also available.
[4]Total usable memory will be less depending upon actual system configuration.
[5]1GB = 1,000,000,000 bytes.
[6]Not available on Lite model.
[7]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.
[8]GPS comes standard with dual pass. GPS is not available with FireWire, RJ-11 or 2nd LAN.
[9]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.
[10]Requires software and activation to enable theft protection.
[11]Fingerprint and contactless SmartCard are mutually exclusive.
[12]Accessories and Integrated Options may vary depending on your notebook configuration. Visit Panasonic website for more accessories and details.

TOUGHBOOK®

SOLUTIONS FOR BUSINESS