Panasonic

Panasonic recommends Windows.

TOUGHBOOK 53

- 14'' high definition (720p) LED display
- Sunlight-viewable touchscreen with Panasonic CircuLumin™ Technology[1]
- Magnesium alloy case with handle
- Drop and spill-resistant
- Optional 4G LTE multi carrier mobile broadband with satellite GPS
- Industry leading driver packages for ease of deployment and support

MIL-STD-810G

3-FOOT DROP RATING

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, Intel® Core™ processors and a multi touch touchpad. Options for a sunlight-viewable Panasonic CircuLumin™ touchscreen, backlit keyboard, dedicated GPS, 4G LTE multi carrier mobile broadband with satellite GPS, integrated webcam and choice of insertable or contactless SmartCard CAC reader, make this a versatile semi-rugged PC.

1.800.662.3537
us.panasonic.com/toughbook/53

TOUGHBOOK®

Panasonic recommends Windows.

SOFTWARE
- Windows® 10 Pro (available Windows® 7 Professional downgrade option)
- Panasonic Utilities (including Dashboard), Recovery Partition
- Enterprise ready driver packages including CAB files and one-click driver bundles

DURABILITY
- MIL-STD-810G certified (3' drop, shock, vibration, dust, altitude, high/low temperature, temperature shock, humidity)
- Spill-resistant keyboard
- Magnesium alloy case with handle
- Optional storage drive heater
- Shock-mounted caged storage drive
- Removable quick-release battery and storage drive
- Field upgradeable 4G LTE
- Preinstalled replaceable screen film for LCD protection[1]

CPU[2]
- Intel® Core™ i5-4310U vPro™ Processor
  – 2.0GHz with Turbo Boost up to 3.0GHz, 3MB cache

STORAGE & MEMORY
- Upgradeable Memory (RAM) - 2 slots
  – 4GB expandable to 8GB or 16GB total of SDRAM (DDR3L-1600MT/s)[3]
- Shock-mounted storage drive with quick-release
  – 500GB 7200rpm HDD (Elite models), 320GB 5400rpm HDD (Lite model)[3]
  – Optional hard drive heater
  – Optional 256/512GB SSD with heaters[3]

DISPLAY
- 14.0" HD 1366 x 768
- Optional touchscreen[4]
  – 2-850 nit
  – Panasonic CircuLumin™ technology
  – Anti-reflective (AR), anti-glare (AG), and circular polarizer
- Anti-reflective (AR) and anti-glare (AG) screen treatments
- Intel® HD graphics 4400
- Triple monitor support
- Concealed mode (configurable)

AUDIO
- Intel® High Definition Audio compliant
- Integrated stereo speakers
- Keyboard volume and mute controls

CAMERAS
- Optional 720p webcam with mic

KEYBOARD & INPUT
- Stylus pen with integrated stylus holder, tether and cleaning cloth[1]
- 87-key with dedicated Windows® Key
- Optional backlit emissive keyboard with 4 adjustable levels
- Electrostatic touchpad with multi touch

DVD DRIVE
- DVD Super MULTI Drive

INTERFACE & EXPANSION

Docking connector	100-pin
USB 3.0 (x 2), USB 2.0 (x 2)	Type A
SD card (SDXC)	UHS-I
Optional IEEE 1394a (FireWire)[4,5]	4-pin
HDMI	Type A
VGA	D-sub 15-pin
10/100/1000 Ethernet	RJ-45
Optional 2nd LAN 10/100/1000 (Ethernet)[4,5]	RJ-45
Audio In	3.5mm Mini-jack stereo
Audio Out	3.5mm Mini-jack stereo
Serial	D-sub 9-pin
ExpressCard/54	34mm or 54mm
PC Card	Type II
Mini-SIM	2FF

WIRELESS
- Optional 4G LTE multi carrier mobile broadband with satellite GPS
- Optional dedicated GPS (u-blox NEO-M8N)
- Optional dual high-gain antenna pass-through[5]
- Intel® Dual Band Wireless-AC 7260 Wi-Fi 802.11a/b/g/n/ac
- Bluetooth® v4.0 + EDR (Class 1)
- Slide on/off switch

POWER
- Li-Ion battery pack:
  – Elite models (long life battery): 10.8V, typical 6750mAh, min. 6300mAh
  – Lite model (lightweight battery): 10.8V, typical 4500mAh, min. 4200mAh
- Battery operation[6]:
  – Elite models: 15 hours
  – Lite model: 10 hours
- Battery charging time: 2 hours[6]
- AC Adapter: AC 100V-240V 50/60Hz, auto sensing/switching worldwide power supply

SECURITY FEATURES
- TPM v1.2
- NIST BIOS compliant
- Persistence® technology by Absolute embedded in BIOS[7]
- Kensington cable lock slot
- Optional fingerprint reader[4,8]
- Optional insertable SmartCard CAC reader
- Optional contactless SmartCard CAC reader[4,8]
  – 13.56MHz (ISO 15693 & 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[9]
- 4G LTE multi carrier mobile broadband with satellite GPS
- Dedicated GPS (u-blox NEO-M8N)[4,5]
- 2nd LAN or FireWire or dual antenna pass-through[4,5]
- Insertable SmartCard CAC reader
- Contactless SmartCard CAC reader[4,8]
- Fingerprint reader[4,8]
- 720p webcam and digital mic[4]
- Backlit emissive keyboard

SELECT ACCESSORIES[9]

AC Adapter 100W (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 Charger 120W	CF-LNDDC120
LIND Solar Charge System	PASC1580-4464
ToughMate Always-on 53 Case	TBC53AOCS-P
ToughMate ComUniversal Carrying Case (large capacity)	TBCCOMUNV-P
ToughMate Backpack	TBCBPK-P
Memory Card 4GB	CF-WMBA1304G
Memory Card 8GB	CF-WMBA1308G
Desktop Dock	CF-VEB531U
Vehicle Docks (no pass-through)	
– Gamber-Johnson with LIND power supply	7160-0393-04-P
– Havis with LIND power supply	CF-H-PAN-412-P
Vehicle Docks (dual pass-through)	
– Gamber-Johnson with LIND power supply	7160-0393-06-P
– Havis with LIND power supply	CF-H-PAN-412-2-P
Cradlepoint Router	
– Verizon LTE	CP-IBR1100LPE-VZ
– Multi Carrier LTE-Advanced	CP-IBR1100LP6-NA
– Multi Carrier LTE-Advanced (compact size)	CP-IBR900LP6-NA
Touchscreen 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] An Intel® Core™ i7 processor is also available.
[3] 1GB = 1,000,000,000 bytes. Total usable memory will be less depending upon actual system configuration.
[4] Not available on Lite model.
[5] Dedicated GPS comes standard with dual pass. Dedicated GPS is not available with FireWire or 2nd LAN.
[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 at 60 nit.
[7] Requires software and activation to enable theft protection.
[8] Fingerprint and contactless SmartCard CAC are mutually exclusive.
[9] Accessories and Integrated Options may vary depending on your notebook configuration. Visit Panasonic website for more accessories and details.

intel inside™ CORE™ i5 vPro™

TOUGHBOOK®