Panasonic



TOUGHBOOK 54

- 14" HD (768p) and FHD (1080p) Displays
- Available Daylight-readable 1000 Nit Gloved Multi Touch Display
- Desktop Class Performance with Available Discrete Graphics and Dual Fans
- MIL-STD-810G and IP51 Certified Magnesium Alloy Design with Built-in Handle
- Available 2nd Drive, Hot-swappable 2nd Battery, 2nd LAN, Serial, DVD, Antenna Pass-through, SmartCard Readers and More
- Industry leading driver packages for ease of deployment and support







THE WORLD'S LIGHTEST AND THINNEST SEMI-RUGGED LAPTOP IN ITS CLASS.

The new Toughbook® 54 laptop from Panasonic uses the latest advances to create a laptop up to 2 lbs. lighter and 0.5" thinner than the competition. It features a spill-resistant, full magnesium alloy design, hard drive heater, backlit keyboard, and is available in four different models to suit every need. The Toughbook 54 has a wide range of integrated options, such as dedicated GPS, 4G LTE mobile broadband with satellite GPS, antenna pass-through, and insertable and contactless SmartCard readers. It is the only laptop in its class to offer a rugged Fischer USB port, another feature that makes the Toughbook 54 one of the most versatile and advanced semi-rugged notebooks on the market.

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, sand, dust, altitude, high/low temperature, high temperature tactical, temperature shock, humidity)! IP51 certified! Spill-resistant keyboard Magnesium alloy case with handle Hard drive heater Removable quick-release battery and storage drive Field upgradeable 46 LTE Shock-mounted caged storage drive Dual fans (Performance model) Pre-installed replaceable screen film for LCD protection (Gloved Multi Touch model) 	
CPU	 Intel® Core™ i5-6300U vPro™ Processor² - 2.4GHz with Turbo Boost up to 3.0GHz - 3MB cache 	
STORAGE & MEMORY	Memory (RAM) Performance model: 86B or 166B SDRAM (DDR3L-1600MHz) Other models: 46B, 86B or 166B* SDRAM (DDR3L-1600MHz) Primary Hard Drive (quick-release) - 5006B HDD (5400rpm Lite model; 7200rpm other models) ⁴ Optional 256GB/512GB/1TB SSD, 1TB 7200rpm HDD ⁴ Optional OPAL encrypted SSD with heater Hard drive heater Shock-mounted Optional Second Drive (onboard) ³ - 256GB/512GB/1TB SSD with heaters ⁴ Hard drive heater Trained technician removable	
DISPLAY	Display Size and Resolution Gloved Multi Touch model: 14.0" FHD 1920 x 1080 (1000 nit) Performance model: 14.0" FHD 1920 x 1080 Prime and Lite models: 14.0" HD 1364 x 768 IPS with direct bonding on FHD displays Anti-reflective [AR] and anti-glare [AG] screen treatments Graphics Intel® HD Graphics 520 (all models) AMD FirePro* M5100 (Performance model) Triple monitor support through HDMI and optional VGA Concealed mode [configurable]	
AUDIO	 Intel® High Definition Audio compliant Integrated speakers Keyboard volume and mute controls 	
CAMERAS	 Optional 1080p webcam with mic and camera on/off indicator³ 	
KEYBOARD & INPUT	 Gloved Multi Touch model: Stylus pen with optional integrated stylus holder⁵ 2 user-definable keys (A1/A2) Dashboard 87-key with dedicated Windows® key Emissive backlit keyboard³ Electrostatic touchpad with multi touch 	
DVD DRIVE	■ Optional DVD Super MULTI Drive ⁵	
INTERFACE & EXPANSION	Docking Connector USB 3.0 (x 3) - Includes 1 high powered 1.5A USB Optional USB 2.0 (x 1) Rugged Fischer® USB (Core Series) SD card (SDXC) HDMI Optional VGA 10/100/1000 Ethernet 10/100/1000 Ethernet Headphones/Mic Optional Serial (True) Optional PC card Optional PC card USB (24-pin Type A Always on USB, USB rapid charging Type A ³⁶ S-pin ^{3,6} UHS-II UHS-II UHS-II S-pin RJ-45 ^{3,6} RJ-45 ^{3,6} Mini-jack stereo Optional Serial (True) Optional PC card USB (34-pin) Type II ^{2,5} Type	
WIRELESS	 Optional 46 LTE multi carrier mobile broadband with satellite GPS Optional dedicated GPS [u-blox NEO-M8N]^{3,6} Optional dual high-gain antenna pass-through³ Optional contactless SmartCard/NFC reader^{3,7} Intel® Dual Band Wireless-AC 8260 802.11a/b/g/n/ac Bluetooth® v4.1 + EDR (Class 1)¹² 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	Li-lon battery pack: Lite model (lightweight battery): 10.8V, typical 3220mAh, min. 3050mAh Other models (long life battery): 11.1V, typical 4200mAh, min. 4080mAh Media bay 2nd battery): 11.1V, typical 2490mAh, min. 2860mAh Battery operation*: Lite model: 9 hours [16 hours with opt. 2nd battery] Other models: 11 hours [18 hours with opt. 2nd battery] Hot swap with optional media bay 2nd battery Battery charging time*: 2 hours (each battery) Quick charge: 80% charge in approx 1 hour AC Adapter: AC 100V-240V 50/60Hz, auto sensing/switching worldwide power supply Battery status and hot swap LEO indicators	
POWER MANAGEMENT	Suspend/Resume Function, Hibernation, Standby	

SECURITY FEATURES

- Password Security: Supervisor, User, Hard Disk Lock
 Kensington cable lock slot
 Trusted platform module [TPM] security chip v.1.2
 Persistence® technology by Absolute embedded in BIOS®
 Optional fingerprint reader^{3,7}
 Optional insertable SmartCard reader (bottom)
 Optional Insertable SmartCard reader (bottom)

- Optional contactless SmartCard/NFC reader³.
 ISO 14443 A/B compliant

WARRANTY

3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT

- 10.7"(L) x 13.6"(W) x 1.2"(H)¹⁰
 4.2 lbs. (Lite model), 4.4 lbs. (Prime model)
 4.6 lbs. (Performance and Gloved Multi Touch models)

INTEGRATED OPTIONS¹¹

- INTEDNALED UT INNO*

 4 G LTE multi carrier mobile broadband with satellite GPS

 1080p webcam and mic²

 Dual antenna pass-through²

 Dedicated GPS [u-blox] or 2nd LAN or 4th USB [2.0] or rugged Fischer USB³

 PC Card³ or DVD drive or insertable SmartCard (media bay) or media bay 2nd battery or stylus pen holder

 Contactless SmartCard/NFC or fingerprint readers³

 Insertable SmartCard reader (holtom)
- Insertable SmartCard reader [bottom]
- Serial³
 VGA

- Visa
 Primary hard drive (quick-release)⁴:
 2566B/512GB/1TB SSD and 1TB 7200rpm HDD with heaters
 2nd hard drive (onboard)^{2,4}:
 256GB/512GB/1TB SSD with heaters

SELECT ACCESSORIES¹¹

AC Adapter (3-prong)	CF-AA5713AM
Long Life Battery Pack	CF-VZSU0PW
Lightweight Battery Pack	CF-VZSU0LW
Media Bay 2nd Battery Pack ⁵	CF-VZSU0KW
Battery Charger	CF-VCBTB3W
LIND Car Charger 120W	CF-LNDDC120
ToughMate ComUniversal Carrying Case	TBCCOMUNV-P
ToughMate Backmack	TDCDDV D

7170-0250-P CF-H-PAN-422-P 7170-0251-P

CF-H-PAN-422-2-P

- Memory Card 4GB
 Memory Card 8GB
 Desktop Dock CE-WMBA1304G
- CF-WMBA1308G CF-VEB541AU Vehicle Cradle (no electronics) - Gamber-Johnson - Havis 7160-0578-00 CF-H-PAN-423
- Vehicle Docks (no pass-through)
- Gamber-Johnson with LIND power supply
 Havis with LIND power supply
 Vehicle Docks (dual pass-through)
- Gamber-Johnson with LIND power supply
- Havis with LIND power supply
 Gloved Multi Touch Stylus
 14.0" Gloved Multi Touch LCD Protective Film
 - FZ-VNPM11U CF-VPF29U

Please consult your reseller or Panasonic representative before purchasing.

¹Tested by national independent third party lab following MIL-STD-810G Method 516.6 Procedure IV for transit drop test and IEC 60529 Sections 13.4, 13.6.2, 14.2.5 and 14.3 for IPS1.

²An Intel[®] Core™ i7 processor is also available on Prime, Performance and Gloved Multi Touch models.

³Not available on Lite model.

⁴1GB = 1,000,000,000 bytes. Total usable memory will be less depending upon actual system configuration. Please contact your reseller or Panasonic representative if you are interested in either the 5126B SSD or 1TB SSD.

5DVD, PC Card insertable SmartCard (media bay), Media Bay 2nd Battery and stylus pen holder are mutually exclusive.

As an alternative, units can be configured with insertable SmartCard reader (bottom). NOTE: DVD drive, PC is serviceable by trained and authorized professionals only. Please contact a Panasonic representative for program details.

⁶Dedicated GPS (u-blox), 4th USB (2.0), rugged Fischer USB and 2nd LAN are mutually exclusive

 $^{7}\mbox{Contactless SmartCard/NFC}$ and fingerprint readers are mutually exclusive.

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 highlightess, applications, features, power management, battery conditioning and other customer preferences. Battery testing results from MobileMark 2007.

9 Requires software and activation to enable theft protection

11.5" height on Performance model and all models with the following integrated options: insertable SmartCard (bottom), 2nd LAN, 4th USB (2.0), rugged Fischer USB, VGA and Serial.

¹¹Accessories and Integrated Options may vary depending on your notebook configuration. Not all items are currently available. Visit Panasonic website for more accessories and details.

12 For Windows 10. Version 4.0 for Windows 7 Professional.







1.800.662.3537 us.panasonic.com/toughbook/54