

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
- The World's Lightest 14" Semi-rugged Laptop—2 lbs. Lighter than the Competition
- MIL-STD-810G and IP5x 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







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 2 lbs. lighter and 0.5" thinner than the competition. It features a spill-resistant, full magnesium alloy design, hard drive heater and backlit keyboard, and is available in four different models to suit every need. The Toughbook 54 laptop 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 semi-rugged laptop that offers an optional second battery allowing hot-swap battery replacement without the need to shut down or hibernate. It is also the only laptop in its class to offer dual drives, another feature that makes the Toughbook 54 laptop one of the most versatile and advanced semi-rugged notehooks on the market

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Panasonic recommends Windows.

SOFTWARE	 Windows 8.1 Pro, Windows 7 Professional Panasonic Utilities (including Dashboard), Recovery Partition
DURABILITY	 MIL-STD-810G design (3' drop, shock, vibration, dust, altitude, high/low temperature, temperature shock, humidity) IP5x dust protected design Spill-resistant keyboard Magnesium alloy case with handle Hard drive heater Shock-mounted flex-connect hard drive with quick-release Dual fans (Performance model) Pre-installed replaceable screen film (Gloved Multi Touch model)
СРИ	■ Intel® Core™ i5-5300U vPro™ Processor¹ - 2.36Hz with Turbo Boost up to 2.96Hz - 3MB cache
STORAGE & MEMORY	Memory [RAM] - Performance model ² : 86B or 16GB SDRAM (DDR3L-1600MHz) - Other models: 46B, 86B or 16GB ³ SDRAM (DDR3L-1600MHz) Primary Hard Drive (quick-release) - 5006B HDD [5400rpm Lite model; 7200rpm other models] ^{4,5} - Optional 1286B SSD, 256GB SSD, 1TB 7200rpm HDD ^{4,5} - Hard drive heater - Shock-mounted with flex-connect Optional Second Drive (onboard) ³ - 1286B SSD or 256GB SSD ^{4,5} - 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 1366 x 768 PS with direct bonding on FHD displays Anti-reflective3 and anti-glare screen treatments Graphics Intel® HD Graphics 5500 (alt models) AMD FirePro" M5100 (Performance model) Dual monitor support through HDMI and/or optional VGA Concealed mode (configurable)
AUDIO	 Intel® high-definition audio compliant Integrated speakers Keyboard volume and mute controls
KEYBOARD & INPUT	 Touch, gestures and stylus pen (Gloved Multi Touch model) 2 user-definable keys (A1/A2) Dashboard 87-key with dedicated Windows® key Emissive backlit keyboard³ Electrostatic touchpad with multi touch support
DVD DRIVE	Optional DVD Super MULTI Drive ⁶
CAMERAS	Optional 1080P webcam with mic and camera on/off indicator ³
EXPANSION SLOTS	 Optional PC card Type II^{2,3,6} SD card (SDXC UHS-II)
INTERFACE	■ Docking Connector ■ HDMI Type A □ Optional VGA D-sub 15-pin Headphones/Mic Mini-jack stereo □ Optional Serial (True) D-sub 9-pin³ ■ USB 3.0 (x 3) □ Optional USB 2.0 (x 1) ■ Rugged Fischer® USB (Core Series) □ 10/100/1000 Ethernet RD-sub 9-pin³ □ 10/100/1000 Ethernet RD-sub 9-pin³ □ 10/100/1000 Ethernet RD-sub 9-pin³ □ 10/100/1000 RD-
WIRELESS	 Optional integrated 4G LTE multi carrier mobile broadband with satellite GPS Optional dedicated GPS [u-blox NEO M8N]³⁷ Optional dual high-gain antenna pass-through³ Optional contactless SmartCard/NFC reader^{3,38} Intel[®] Dual Band Wireless-AC 7265 802.11a/b/g/n/ac Intel[®] Wireless Display (WID) Bluetooth⁸ 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 Side on/off switch
POWER	Li-lon battery pack?: - Lightweight battery (standard on Lite model): 10.8V, typical 3220mAh, min. 3050mAh - Long life battery (standard on other models): 11.1V, typical 4200mAh, min. 4080mAh - Media bay 2nd battery*: 11.1V, typical 2960mAh, min. 2860mAh - Battery operation*: 8 hours (15 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*: 2.5 hours (each battery) - AC Adapter: AC 100V-240V 50/60Hz, auto sensing/switching worldwide power supply - Battery status and battery hot-swap LED indicators

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 BIOS¹0
 Optional fingerprint reader³8
 Optional insertable SmartCard reader [Dottom]

- Optional 13.56MHz contactless SmartCard/NFC reader^{2,3,8}
 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)¹¹

 4.2 lbs. (Lite model), 4.4 lbs. (Prime model)

 4.6 lbs. (Performance and Gloved Multi Touch models)

- INIEGRALEU UPTIONS¹²

 4 G LTE multi-carrier mobile broadband with satellite GPS

 Dual antenna pass-through³

 Dedicated GPS (u-blox) or 2nd LAN or 4th USB (2.0) or rugged Fischer USB²³

 PC Card²³ or DVD drive or media bay 2nd battery

 Contactless SmartCard/NFC or fingerprint readers³

 Insertable SmartCard reader (bottom)

 Serial³

 VGA

- 1080p webcam and mic³
- Primary hard drive [quick-release]:
 1286B SSD, 2566B SSD and 1TB 7200rpm HDD with heaters
 2nd hard drive [onboard]²:
 1286B SSD and 2566B SSD with heaters

SELECT ACCESSORIES¹²

JELECI ACCESSORIES	
 AC Adapter (3-prong) 	CF-AA5713AM
 Long Life Battery Pack 	CF-VZSU0PW
 Lightweight Battery Pack 	CF-VZSU0LW
 Media Bay 2nd Battery Pack⁶ 	CF-VZSU0KW
Battery Charger	CF-VCBTB2W
LIND Car Adapter 120W	CF-LNDDC120
■ ToughMate Always-on 54 Case	TBC54A0CS-P
 ToughMate ComUniversal Carrying Case 	TBCCOMUNV-P
■ ToughMate Backpack	TBCBPK-P
 Memory Card 4GB 	CF-WMBA1304G
 Memory Card 8GB 	CF-WMBA1308G
 Desktop Dock 	CF-VEB541U
 Vehicle Cradle (no electronics) 	
- Gamber- Johnson	7160-0578-00
- Havis	DS-PAN-423
 Vehicle Docks (no pass-through) 	
- Gamber-Johnson with LIND Power Supply	7170-0250-P
- Havis with LIND Power Supply	DS-PAN-422
With Emily Francisco Terrory	

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 Replacement Stylus

DS-PAN-422-2 FZ-VNPM11U 14.0" Gloved Multi Touch LCD Protective Film. CF-VPF29U

Please consult your reseller or Panasonic representative before purchasing

*An Intel® Core™ 17 processor is also available on Prime, Performance and Gloved Multi Touch models.
*Performance model available early summer. On all models, delayed availability on select options (2nd LAN, rugged Fischer USB, Contactless SmartCard/NFC and PC Card).

³Not available on Lite model.
⁴Total usable memory will be less depending upon actual system configuration.

⁵1GB = 1,000,000,000 bytes. ⁶DVD, PC Card and Media Bay 2nd Battery are mutually exclusive

⁷Dedicated GPS (u-blox), 4th USB (2.0), rugged Fischer USB and 2nd LAN are mutually exclusive. ⁸Contactless SmartCard/NFC and fingerprint readers are mutually exclusive.

*Contactless SmartCard/NTC and fingerprint readers are mutually exclusive.

Approximate time. 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.

*Requires software and activation to enable theft protection.

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

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

'intel' inside CORE 15



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