

## 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 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







# 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, 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 semi-rugged laptop that offers an optional 2nd 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 one of the most versatile and advanced semi-rugged notebooks on the market.





### Panasonic recommends Windows.

SOFTWARE	■ Windows® 8.1 Pro	
DURABILITY	Panasonic Utilities (including Dashboard), Recovery Partition  MIL-STD-810G certified (3' drop, shock, vibration, sand, dust, altitude, high/low temperature, high temperature tactical, temperature shock, humidity)¹  IP51 certified¹  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™ Processor² - 2.3GHz with Turbo Boost up to 2.9GHz - 3MB cache	
STORAGE & MEMORY	■ Memory (RAM)  - Performance model <sup>1</sup> : 8GB or 16GB SDRAM (DDR3L-1600MHz)  - Other models: 4GB, 8GB or 16GB SDRAM (DDR3L-1600MHz)  - Primary Hard Drive (quick-release)  - 500GB HDD (5400rpm Lite model; 7200rpm other models) <sup>5,6</sup> - Optional 128GB SSD, 256GB SSD, 1TB 7200rpm HDD <sup>5,6</sup> - Hard drive heater  - Shock-mounted with flex-connect  - Optional Second Drive (onboard) <sup>4</sup> - 128GB SSD or 256GB SSD <sup>5,6</sup> - 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-reflective' and anti-glare screen treatments Graphics Intel® HD Graphics 5500 (all models) AND FirePro® M5100 (Performance model)  Dual monitor support through HDMI and/or optional VGA Concealed mode (configurable)	
AUDIO	<ul> <li>Intel® high-definition audio compliant</li> <li>Integrated speakers</li> <li>Keyboard volume and mute controls</li> </ul>	
KEYBOARD & INPUT	<ul> <li>Touch, gestures and optional stylus pen (Gloved Multi Touch model)</li> <li>2 user-definable keys (A1/A2)</li> <li>Dashboard</li> <li>87-key with dedicated Windows® key</li> <li>Emissive backlit keyboard<sup>4</sup></li> <li>Electrostatic touchpad with multi touch support</li> </ul>	
DVD DRIVE	<ul> <li>Optional DVD Super MULTI Drive<sup>7</sup></li> </ul>	
CAMERAS	Optional 1080P webcam with mic and camera on/off indicator <sup>4</sup>	
EXPANSION SLOTS	■ Optional PC card Type    <sup>3,4,7</sup> ■ SD card (SDXC UHS-II)	
INTERFACE	■ Docking Connector ■ HDMI Type A ■ Optional V6A D-sub 15-pin Mini-jack stereo D-sub 9-pini* Type A ■ D-sub 9-pini* Type A ■ Nawys on USB, USB rapid charging Type A ■ Rugged Fischer® USB (Core Series) ■ 10/100/1000 Ethernet ■ 10/100/1000 and LAN (Ethernet) ■ 18	
WIRELESS	Optional integrated 46 LTE multi carrier mobile broadband with satellite GPS Optional dedicated GPS (u-blox NEO M8N)** Optional dual high-gain antenna pass-through* Optional contactless SmartCard/NFC reader*** Intel* Dual Band Wireless-AC 7265 802.11a/b/g/n/ac Intel* Wireless Display (WiDi) 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 Slide on/off switch	
POWER MANAGEMENT	■ Li-lon battery pack¹º;  - 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 battery¹: 11.1V, typical 2960mAh, min. 2860mAh  Battery operation¹º: 8 hours (15 hours with opt. 2nd battery)  - Other models: 11 hours with opt. 2nd battery 11 hours (18 hours with opt. 2nd battery)  Battery charging time¹º: 2 hours (each battery)  - Quick charge: 80% charge in approx 1 hour  Battery status and battery hot-swap LED indicators	
TOWER PIANAGEPIENT	<ul> <li>Suspend/Resume Function, Hibernation, Standby, ACPI BIOS</li> </ul>	

#### SECURITY FEATURES

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  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 BIOS¹¹

  Optional ingerprint reader¹s

  Optional insertable SmartCard reader (bottom)

  Optional 13.56MHz contactless SmartCard/NFC reader³.49

   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)<sup>12</sup>
  4.2 lbs. (Lite model), 4.4 lbs. (Prime model)
  4.6 lbs. (Performance and Gloved Multi Touch models)

- 46 LTE multi carrier mobile broadband with satellite GPS
   Dual antenna pass-through<sup>4</sup>
   Dedicated GPS (u-blox) or 2nd LAN or 4th USB (2.0) or rugged Fischer USB<sup>2,4</sup>
   PC Card<sup>2,4</sup> or DVD drive or media bay 2nd battery
   Contactless SmartCard/NFC or fingerprint readers<sup>4</sup>
- Contactless SmartCard/NFC or fingerp
  Insertable SmartCard reader (bottom)
  Serial<sup>4</sup>
  VGA

- 1080p webcam and mic<sup>4</sup>
  Primary hard drive (quick-release):
   1286B SSD, 256GB SSD and 1TB 7200rpm HDD with heaters
- 2nd hard drive (onboard)<sup>4</sup>:
   128GB SSD and 256GB SSD with heaters

#### SELECT ACCESSORIES<sup>13</sup>

AC Adapter (3-prong)	CF-AA5713A
ong Life Battery Pack	CF-VZSU0PV
ightweight Battery Pack	CF-VZSU0LW
Media Bay 2nd Battery Pack <sup>7</sup>	CF-VZSU0KV
Battery Charger	CF-VCBTB3V
IND Čar Adapter 120W	CF-LNDDC1:
ToughMate Always-on 54 Case	TBC54A0CS-
ToughMate ComUniversal Carrying Case	TBCCOMUN\
ToughMate Backpack	TBCBPK-P

- ToughMate Backpack Memory Card 4GB
   Memory Card 8GB
   Desktop Dock
- Desktop Dock
   Vehicle Cradle (no electronics) - Gamber-Johnson
- Nehicle Docks (no pass-through)
   Gamber-Johnson with LIND Power Supply
   Havis with LIND Power Supply
- Hawis with LIND Power Supply
   Vehicle Docks (dual pass-through)
   Gamber-Johnson with LIND Power Supply
   Hawis with LIND Power Supply
   Gloved Multi Touch Stylus
   14.0" Gloved Multi Touch LCD Protective Film

Please consult your reseller or Panasonic representative before purchasing

\*Tested by national independent third party lab following MIL-STD-8106 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 IP51.

\*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]. 4Not available on Lite model

<sup>5</sup>Total usable memory will be less depending upon actual system configuration. 61GB = 1.000.000.000 bytes.

<sup>7</sup>DVD, PC Card and Media Bay 2nd Battery are mutually exclusive

"TVU, IPC Card and Media Bay 7nd Battery are mutually exclusive."

Pledicated 6PS in-boxl, 4th USB 2,01 nugged Fischer USB and 7nd LAN are mutually exclusive.

\*Contactless SmartCard/NFC 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 MobileNark 2007.

\*\*Requires software and activation to enable theft protection.\*\*

\*\*Testing the preformance model and all models with the following integrated options: insertable SmartCard bottom. Znd LAN, 4th USB [z.0], rugged Fischer USB, VGA and Serial.

\*\*Accessives and leterated full testing and sum and seabook configuration. Not all items are currently.

<sup>13</sup>Accessories and Integrated Options may vary depending on your notebook configuration. Not all items are currently available. Visit Panasonic website for more accessories and details.





CF-WMBA1304G CF-WMBA1308G CF-VEB541AU

7160-0578-00 CF-H-PAN-423

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

7170-0251-P CF-H-PAN-422-2-P FZ-VNPM11U CF-VPF29U



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