



Panasonic recommends Windows.

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
- Available TPM 2.0 Security¹

MIL-STD-
810G

IP51

3-FOOT
DROP RATING

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 CAC 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.

TOUGHBOOK 54

Panasonic recommends Windows.

SOFTWARE	<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ MIL-STD-810G certified [3' drop, shock, vibration, sand, dust, altitude, high/low temperature, high temperature tactical, temperature shock, humidity]²■ IP51 certified²■ Spill-resistant keyboard■ Magnesium alloy case with handle■ Storage drive heater■ Shock-mounted caged storage drive■ Removable quick-release battery and storage drive■ Field upgradeable 4G LTE■ Dual fans (Performance model)■ Preinstalled replaceable screen film for LCD protection (Gloved Multi Touch model)																										
CPU	<ul style="list-style-type: none">■ Intel® Core™ i5-6300U vPro™ Processor<ul style="list-style-type: none">~ 2.4GHz with Turbo Boost up to 3.0GHz, 3MB cache■ Intel® Core™ i7-6600U vPro™ Processor³<ul style="list-style-type: none">~ 2.6GHz with Turbo Boost up to 3.4GHz, 4MB cache																										
STORAGE & MEMORY	<ul style="list-style-type: none">■ Upgradeable Memory (RAM) - 2 slots<ul style="list-style-type: none">~ Performance model: 8GB expandable to 16GB total of SDRAM (DDR3L-1600MT/s)⁴~ Other models: 4GB expandable to 8GB or 16GB⁵ total of SDRAM (DDR3L-1600MT/s)⁴■ Primary Storage Drive (quick-release)<ul style="list-style-type: none">~ 500GB HDD [5400rpm Lite model; 7200rpm other models]⁴~ Optional 256GB/512GB/1TB SSD, 1TB 7200rpm HDD⁴~ Optional OPAL encrypted SSD~ Storage drive heater~ Shock-mounted■ Optional Second Storage Drive (onboard)³<ul style="list-style-type: none">~ 256GB/512GB/1TB SSD⁴~ Storage drive heater~ Trained technician removable																										
DISPLAY	<ul style="list-style-type: none">■ Display Size and Resolution<ul style="list-style-type: none">~ Gloved Multi Touch model: 14.0" FHD 10-pt capacitive 1920 x 1080 (1000 nit)~ Performance model: 14.0" FHD 1920 x 1080~ Prime and Lite models: 14.0" HD 1366 x 768■ IPS with direct bonding on FHD displays■ Anti-reflective (AR)³ and anti-glare (AG) screen treatments■ Graphics<ul style="list-style-type: none">~ Intel® HD Graphics 520 (all models)~ AMD FirePro™ M5100 (Performance model)■ Triple monitor support through HDMI and optional VGA■ Concealed mode (configurable)																										
AUDIO	<ul style="list-style-type: none">■ Integrated dual microphone■ Intel® High Definition Audio compliant■ Integrated speakers■ Keyboard volume and mute controls																										
CAMERAS	<ul style="list-style-type: none">■ Optional 1080p webcam with dual mic and camera on/off indicator³																										
KEYBOARD & INPUT	<ul style="list-style-type: none">■ Gloved Multi Touch model: Stylus pen, stylus holder and cleaning cloth are all optional⁵■ Gloved Multi Touch model: Supports glove mode and rain mode■ 2 user-definable keys [A1/A2]■ 87-key with dedicated Windows® key■ Emissive backlit keyboard with 4 adjustable levels³■ Electrostatic touchpad with multi touch																										
DVD DRIVE	<ul style="list-style-type: none">■ Optional DVD Super MULTI Drive⁵																										
INTERFACE & EXPANSION	<table><tr><td>■ Docking Connector</td><td>24-pin</td></tr><tr><td>■ USB 3.0 (x 3)</td><td>Type A (including one 1.5A port)</td></tr><tr><td>■ Optional USB 2.0 (x 1)</td><td>Type A^{3,6}</td></tr><tr><td>■ Rugged Fischer® USB (Core Series)</td><td>5-pin^{3,6}</td></tr><tr><td>■ SD card (SDXC)</td><td>UHS-II</td></tr><tr><td>■ HDMI</td><td>Type A</td></tr><tr><td>■ Optional VGA</td><td>D-sub 15-pin</td></tr><tr><td>■ 10/100/1000 Ethernet</td><td>RJ-45</td></tr><tr><td>■ 10/100/1000 2nd LAN (Ethernet)</td><td>RJ-45^{3,6}</td></tr><tr><td>■ Audio In/Out</td><td>3.5mm Mini-jack stereo</td></tr><tr><td>■ Optional Serial (True)</td><td>D-sub 9-pin³</td></tr><tr><td>■ Optional PC card</td><td>Type II^{3,5}</td></tr><tr><td>■ Mini-SIM</td><td>2FF</td></tr></table>	■ Docking Connector	24-pin	■ USB 3.0 (x 3)	Type A (including one 1.5A port)	■ Optional USB 2.0 (x 1)	Type A ^{3,6}	■ Rugged Fischer® USB (Core Series)	5-pin ^{3,6}	■ SD card (SDXC)	UHS-II	■ HDMI	Type A	■ Optional VGA	D-sub 15-pin	■ 10/100/1000 Ethernet	RJ-45	■ 10/100/1000 2nd LAN (Ethernet)	RJ-45 ^{3,6}	■ Audio In/Out	3.5mm Mini-jack stereo	■ Optional Serial (True)	D-sub 9-pin ³	■ Optional PC card	Type II ^{3,5}	■ Mini-SIM	2FF
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WIRELESS	<ul style="list-style-type: none">■ Optional 4G LTE multi carrier mobile broadband with satellite GPS■ Optional dedicated GPS [u-blox NEO-M8N]^{3,6}■ Optional dual high-gain antenna pass-through³■ Intel® Dual Band Wireless-AC 8260 Wi-Fi 802.11a/b/g/n/ac■ Bluetooth® v4.1 + EDR (Class 1)¹³■ Slide on/off switch																										
POWER	<ul style="list-style-type: none">■ Li-Ion battery pack:<ul style="list-style-type: none">~ 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 2960mAh, min. 2860mAh⁵■ Battery operation⁸:<ul style="list-style-type: none">~ 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)⁸~ Quick charge: 80% charge in approx 1 hour■ AC Adapter: AC 100V-240V 50/60Hz, auto sensing/switching worldwide power supply																										

SECURITY FEATURES

- TPM v1.2 (TPM v2.0 available)¹
- NIST BIOS compliant
- Persistence® technology by Absolute embedded in BIOS¹⁰
- Kensington cable lock slot
- Optional fingerprint reader^{3,7}
- Optional insertable SmartCard CAC reader (bottom)
- Optional contactless SmartCard CAC reader^{3,7}
 - ~ 13.56MHz (ISO 15693 & 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)

INTEGRATED OPTIONS¹²

- 4G LTE multi carrier mobile broadband with satellite GPS
- 1080p webcam and dual mic³
- Dual antenna pass-through³
- Dedicated GPS (u-blox) or 2nd LAN or 4th USB [2.0] or rugged Fischer USB³
- PC Card³ or DVD drive or insertable SmartCard CAC (media bay) or media bay
- 2nd battery or stylus pen holder
- Contactless SmartCard CAC or fingerprint reader³
- Insertable SmartCard CAC reader (bottom)
- Serial³
- VGA

SELECT ACCESSORIES¹²

- | | |
|--|------------------|
| ■ AC Adapter 100W (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 |
| ■ LIND Solar Charge System | PASC1580-4464 |
| ■ ToughMate Always-on 54 Case | TBC54A0CS-P |
| ■ ToughMate ComUniversal Carrying Case | TBCCOMUNV-P |
| ■ ToughMate Backpack | TBCBP-K-P |
| ■ Memory Card 4GB | CF-WMBA1304G |
| ■ Memory Card 8GB | CF-WMBA1308G |
| ■ Desktop Dock | CF-VEB541AU |
| ■ Vehicle Docks (no pass-through) | |
| ~ Gamber-Johnson with LIND power supply | 7170-0250-P |
| ~ Havis with LIND power supply | CF-H-PAN-422-P |
| ■ Vehicle Docks (dual pass-through) | |
| ~ Gamber-Johnson with LIND power supply | 7170-0251-P |
| ~ Havis with LIND power supply | CF-H-PAN-422-2-P |
| ■ Cradlepoint Router | |
| ~ Verizon LTE | CP-IBR1100LPE-VZ |
| ~ Multi Carrier LTE-Advanced | CP-IBR1100LP6-NA |
| ~ Multi Carrier LTE-Advanced (compact size) | CP-IBR900LP6-NA |
| ■ Gloved Multi Touch Stylus | FZ-VNPM11AU |
| ■ 14.0" Gloved Multi Touch LCD Protective Film | CF-VPF29U |

Please consult your reseller or Panasonic representative before purchasing.

¹ TPM 1.2 ships by default, but can run TPM2.0 - see below Microsoft link for details:
support.microsoft.com/en-us/help/2920188/update-to-add-support-for-tpm-2.0-in-windows-7-and-windows-server-2008-r2

² Tested 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 IP51.

³ Not available on Lite model.

⁴ 1GB = 1,000,000,000 bytes. Total usable memory will be less depending upon actual system configuration.

⁵ DVD, PC Card insertable SmartCard CAC (media bay), Media Bay 2nd Battery and stylus pen holder are mutually exclusive. As an alternative, units can be configured with insertable SmartCard CAC reader (bottom). NOTE: DVD drive is serviceable by trained and authorized professionals only - please contact a Panasonic representative for program details.

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

⁷ Contactless SmartCard CAC and fingerprint readers are mutually exclusive.

⁸ 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.

¹⁰ Requires software and activation to enable theft protection.

¹¹ 1.5" 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.

¹² 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.

¹³ Bluetooth 4.0 (Class 1) + EDR for Windows 7 Professional.



1.800.662.3537

us.panasonic.com/toughbook/54

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TOUGHBOOK®