Panasonic



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
- Available with P.180 for seamless global connectivity^{14,15}









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

The 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

SOFTWARE	■ 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 ² P51 certified² Spill-resistant keyboard Magnesium alloy case with handle Storage drive heater Shock-mounted caged storage drive Removable quick-release battery and storage drive Dual fans (Performance model) Preinstalled replaceable screen film for LCD protection (Gloved Multi Touch model)
OPERATING SYSTEM	Windows® 10 Pro 64-bit CPU - Intel® Core™ i5-7300U vPro™ processor (7th Gen CPU) 2.6GHz with Turbo Boost up to 3.5GHz, 3MB cache - Intel® Core™ i7-7600U vPro™ processor (7th Gen CPU) 2.8GHz with Turbo Boost up to 3.9GHz, 4MB cache Graphics - Intel® HD Graphics 620 (all models) - AMD Radeon™ Pro WX 4150 (Performance model) Memory (RAM) - 2 slots upgradeable - Performance model: 16GB up to 32GB total (DDR4-2133MT/s)⁴ - Other models: 8GB, 16GB or 32GB² total (DDR4-2133MT/s)⁴ Storage Drive Shock-mounted with Heater (quick-release) - 500GB HDD (5400rpm Lite model): 25GB SSD other models⁴ - Optional 512GB/1TB SSD, 1TB 7200rpm HDD⁴ - Optional OPAL encrypted SSD Optional 2nd Storage Drive with Heater (trained technician removable)³ - 25GB/512GB/1TB SSD Windows 7 Professional 64-bit downgrade (from Windows 10) CPU - Intel® Core™ i5-6300U vPro™ processor (6th Gen CPU) 2.4GHz with Turbo Boost up to 3.0GHz, 3MB cache - Intel® Core™ i7-6600U vPro™ processor (6th Gen CPU) 2.6GHz with Turbo Boost up to 3.4GHz, 4MB cache Graphics - Intel® Crep™ i5-600 (all models) - AMD FirePro™ M5100 (Performance model) Memory (RAM) - 2 slots upgradeable - Performance model: 8GB or 16GB total (DDR3L-1600MT/s)⁴ - Other models: 4GB, 8GB or 16GB total (DDR3L-1600MT/s)⁴ - Other models: 4GB, 8GB or 16GB total (DDR3L-1600MT/s)⁴ - Other models: 4GB, 8GB or 16GB total (DDR3L-1600MT/s)⁴ - Other models: 4GB, 8GB or 16GB total (DDR3L-1600MT/s)⁴ - Optional OfAL corrypted SSD Optional 276GB/512GB/1TB SSD, 1TB 7200rpm other models¹ - Doptional 276GB/512GB/1TB SSD, 1TB 7200rpm other models¹ - Optional 276GB/512GB/1TB SSD, 1TB 7200rpm other models¹ - Doptional 276GB/512GB/1TB SSD, 1TB 7200rpm other models¹ - Doptional 276GB/512GB/1TB SSD, 1TB 7200rpm other models¹ - 256GB/512GB/1TB SSD, 1TB 7200rpm other models¹ -
DISPLAY	Display Size and Resolution 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 PS with direct bonding on FHD displays Anti-reflective (AR)³ and anti-glare (AG) screen treatments Triple monitor support through HDMI and optional VGA Concealed mode (configurable)
AUDIO	Integrated dual microphone Intel® High Definition Audio compliant Integrated speakers Keyboard volume and mute controls
CAMERAS	 1080p webcam with dual mic and camera on/off indicator³ (optional on 6th Gen CPU models, standard on all 7th Gen CPU models except Lite model)
KEYBOARD & INPUT	Gloved Multi Touch model: Stylus pen, stylus holder and cleaning cloth are optional ⁵ 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 levels (white backlit on 6th Gen CPU models, red backlit on 7th Gen CPU models) Electrostatic touchpad with multi touch
DVD DRIVE INTERFACE & EXPANSION	■ Optional DVD Super MULTI Drive ⁵ ■ Docking Connector USB 3.0 (x 3) Optional USB 2.0 (x 1) Optional Rugged Fischer® USB (Core Series) 5-pin ³ SD card (SDXC) HDMI Optional VCA Optional VCA 10/100/1000 Ethernet 10/100/1000 Ethernet 10/100/1000 Ethernet) Audio In/Out Optional Serial (True) Optional Serial (True) Optional Pocard Type A S.5mm Mini-jack stereo D-sub 9-pin ³ Type II ³ Type A S.5mm Mini-jack stereo D-sub 9-pin ³ Type II ³ Type
WIRELESS of Work COME.	Opt. 4G LTE multi carrier mobile broadband w/ satellite GPS (LTE-Advanced on 7th Gen CPU models) Certified with Verizon, AT&T, Sprint and P.180¹⁴ Optional dedicated GPS (u-blox NEO-M8N)³⁴ Optional dual high-gain antenna pass-through³ Intel® Dual Band Wireless-AC 8260 Wi-Fi 802.11a/b/g/n/ac (8265 on 7th Gen CPU models) Bluetooth® v4.1 + EDR (Class 1)¹³ Slide on/off switch
POWER	Li-lon battery pack: Lite model (lightweight battery): 11.1V, typical 3220mAh, min. 3050mAh Other models (long life battery): 11.1V, typical 4200mAh, min. 4080mAh Media bay 2nd battery: 11.1V, typical 2960mAh, min. 2860mAh Battery operation ⁹ : Th Gen CPU models: Lite model: 7 hours (14 hours with opt. 2nd battery) Prime model: 12 hours (20 hours with opt. 2nd battery) Performance & Touch models: 10 hours (17 hours with opt. 2nd battery) Lite model: 9 hours (16 hours with opt. 2nd battery) Lite model: 9 hours (18 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) 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 com=''
- 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

- 4G 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 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)Long Life Battery Pack CF-AA5713AM CF-VZSU0PW CF-VZSU0LW Lightweight Battery Pack Media Bay 2nd Battery Pack⁵ CF-VZSU0KW Media Bay 2nd Battery Pack*
 Battery Charger
 LIND Car Charger 120W
 LIND Solar Charge System
 ToughMate Always-on 54 Case
 ToughMate ComUniversal Carrying Case
 ToughMate Backpack
 Mappag Cardr CF-VCBTB3W CF-LNDDC120 PASC1580-4464 TRC54A0CS-P TBCCOMUNV-P TBCBPK-P CF-BA71504 CF-BAZ1508 CF-BAZ1708
- Memory Cards
 4GB DDR3L (6th Gen CPU models)
 8GB DDR3L (6th Gen CPU models)
 8GB DDR4 (7th Gen CPU models)
- 16GB DDR4 (7th Gen CPU models) CF-BAZ1716 Desktop Dock
 Vehicle Docks (no pass-through)
 Gamber-Johnson with LIND power supply CF-VEB541AU 7170-0250-P

CF-H-PAN-422-P CF-H-PAN-422-2-P AP-PAN-CCGPD-Q-BL AP-PAN-CCGPD-Q-WH

CP-IBR1100LPF-V7 CP-IBR1100LP6-NA CP-IBR900LP6-NA

F7-VNPM11AU

- 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
 AntennaPlus Dual LTE & GPS Antenna Kit
 Threaded Black Mount
 Threaded White Mount
 Caddposit Bouter

- Cradlepoint Router Verizon LTE Multi Carrier LTE-Advanced
- Multi Carrier LTE-Advanced (compact size)
- Gloved Multi Touch Stylus
- 14.0" Gloved Multi Touch LCD Protective Film

Please consult your reseller or Panasonic representative before purchasing.

- ¹ TPM 1.2 ships by default on i5-6300U and i7-6600U models, 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.
- 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.
- Battery performance features such as charge time and tife 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, sower management, battery conditioning and other customer preferences. Battery testing results of Win10 models from MobileMark 2014 at 150 nit and Win7 models from MobileMark 2007 at 60 nit.
- 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.
- 14 P.180 is available only for Intel® Core™ i5-7300U and i7-7600U models. For more information about P.180, please visit, PanasonicP180.com







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