



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, 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

ONE OF THE WORLD'S LIGHTEST AND THINNEST SEMI-RUGGED LAPTOPS 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 two 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, 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

- Windows® 10 Pro
- 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
- 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
- Preinstalled replaceable screen film for LCD protection (Gloved Multi Touch model)

OPERATING SYSTEM

- CPU
 - Intel® Core™ i5-7300U vPro™ processor (7th Gen CPU)
 - 2.6GHz with Turbo Boost up to 3.5GHz, 3MB cache
- Graphics
 - Intel® HD Graphics 620 (all models)
- Memory (RAM) - 2 slots upgradeable
 - 8GB, 16GB or 32GB total (DDR4-2133MT/s)³
- Storage Drive Shock-mounted with Heater (quick-release)
 - 500GB HDD / 5400rpm; 256GB SSD³
 - Optional 512GB/1TB SSD, 1TB 7200rpm HDD³
 - Optional OPAL encrypted SSD
- Optional 2nd Storage Drive with Heater (trained technician removable)
 - 256GB/512GB/1TB SSD³

DISPLAY

- Display Size and Resolution
 - Gloved Multi Touch model: 14.0" FHD 10-pt capacitive 1920 x 1080 (1000 nit)
 - Non-touch: 14.0" HD 1366 x 768
- IPS with direct bonding on FHD displays
- Anti-reflective (AR) and anti-glare (AG) screen treatments
- Triple monitor support through HDMI and optional VGA
- Concealed mode (configurable)
- Optional AMD Firepro™ M5100 available on Touch Model

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 indicator (optional on 6th Gen CPU models, standard on all 7th Gen CPU models)

KEYBOARD & INPUT

- Gloved Multi Touch model: Stylus pen, stylus holder and cleaning cloth are optional⁴
- 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

- Optional DVD Super MULTI Drive⁴

INTERFACE & EXPANSION

- Docking Connector 24-pin
- USB 3.0 (x 3) Type A (including one 1.5A port)
- Optional USB 2.0 (x 1) Type A⁵
- Optional Rugged Fischer® USB (Core Series) 5-pin⁵
- SD card (SDXC) UHS-II
- HDMI Type A
- Optional VGA D-sub 15-pin
- 10/100/1000 Ethernet RJ-45
- Optional 10/100/1000 2nd LAN (Ethernet) RJ-45⁵
- Audio In/Out 3.5mm Mini-jack stereo
- Optional Serial (True) D-sub 9-pin
- Optional PC card Type II⁴
- Mini-SIM 2FF

WIRELESS

- Opt. 4G LTE multi carrier mobile broadband w/ satellite GPS (LTE-Advanced on 7th Gen CPU models)
- Optional dedicated GPS (u-blox NEO-M8N)⁶
- Optional dual high-gain antenna
- 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)¹¹
- Slide on/off switch

POWER

- Li-Ion battery pack:
 - Long life battery: 11.1V, typical 4200mAh, min. 4080mAh
 - Media bay 2nd battery: 11.1V, typical 2960mAh, min. 2860mAh⁴
- Battery operation⁷:
 - 7th Gen CPU models:
 - Non-touch: 12 hours (20 hours with opt. 2nd battery)
 - Touch models: 10 hours (17 hours with opt. 2nd battery)
 - 6th Gen CPU 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)⁷
- 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 BIOS⁸
- Kensington cable lock slot
- Optional fingerprint reader⁴
- Optional insertable SmartCard CAC reader (bottom)
- Optional contactless SmartCard CAC reader⁴
 - 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)⁹
- 4.4 lbs. (Non-touch)
- 4.6 lbs. (Gloved Multi Touch model)

INTEGRATED OPTIONS¹⁰

- 4G LTE multi carrier mobile broadband with satellite GPS
- Dual antenna
- Dedicated GPS (u-blox) or 2nd LAN or 4th USB (2.0) or rugged Fischer USB
- PC Card or DVD drive or insertable SmartCard CAC (media bay) or media bay 2nd battery or stylus pen holder
- Contactless SmartCard CAC or fingerprint reader
- Insertable SmartCard CAC reader (bottom)
- Serial
- VGA

SELECT ACCESSORIES¹⁰

- AC Adapter 100W (3-prong) CF-AA5713AM
- Long Life Battery Pack CF-VZSU0PW
- Lightweight Battery Pack CF-VZSU0LW
- Media Bay 2nd Battery Pack⁴ CF-VZSU0KW
- Battery Charger CF-VCBTB3W
- LIND Car Charger 120W CF-LNDDC120
- LIND Solar Charge System PASC1580-4464
- ToughMate Always-on S4 Case TBC54A0CS-P
- ToughMate ComUniversal Carrying Case TBCCOMUNV-P
- ToughMate Backpack TBCBPK-P
- Memory Cards
 - 8GB DDR4 (7th Gen CPU models) CF-BAZ1708
 - 16GB DDR4 (7th Gen CPU models) CF-BAZ1716
- Desktop Dock CF-VEBS41AU
- 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 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

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

⁴ DVD, 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.

⁵ Dedicated GPS (u-blox), 4th USB (2.0), rugged Fischer USB and 2nd LAN are mutually exclusive.

⁶ Contactless SmartCard CAC and fingerprint readers are mutually exclusive.

⁷ 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 of Win10 models from MobileMark 2014 at 150 nit and Win7 models from MobileMark 2007 at 60 nit.

⁸ Requires software and activation to enable theft protection.

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

¹⁰ 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.

¹¹ Bluetooth 4.0 (Class 1) + EDR for Windows 7 Professional.



1.866.413.3099

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