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, FirstNet Ready™ CF-54 EM7511 Band 14 mobile broadband, insertable and contactless SmartCard CAC readers.

TOUGHBOOK 54

- 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
- Optional FirstNet Ready™ EM7511 Band 14 mobile broadband

Panasonic recommends Windows.

1.800.662.3537
na.panasonic.com/us/TOUGHBOOK54
SOFTWARE
- Windows® 10 Pro 64-bit
- 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)3
- IP51 certified
- Non-replacable keyboard
- Magnesium alloy case with handle
- Storage drive heater
- Shock-mounted cabled 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
- CPU
  - Intel® Core™ i5, i7, i9, Pro X or i700 processor
  - 2.6GHz with Turbo Boost up to 3.5GHz, 3MB cache
  - Intel® Core™ i7, i9, Pro X or i700 processor2
  - 2.8GHz with Turbo Boost up to 3.9GHz, 6MB cache
- Graphics
  - Intel® HD Graphics 4200 (all models)
  - AMD Radeon™ Pro WX 4150 (Performance model)
- Memory
  - RAM (RAM) - 2 slots upgradeable
    - Performance model: 16GB up to 32GB total (DDR4-2133MT/s)3
    - Other models: 8GB, 16GB or 32GB total (DDR4-2133MT/s)3
- Storage Drive
  - Shown mounted with Heater (quick release)
  - 500GB HDD (800rpm life model), 256GB SSD other models1
  - Optional 128GB/256GB SSD: TBB 7200rpm HDD
  - Optional OPAL encrypted SSD
- Optional 2nd Storage Drive with Heater (trained technician removable)1
  - 256GB/512GB/1TB SSD

DISPLAY
- Display Size and Resolution
  - Gloved Multi Touch model: 14.0” FHD 10:gt capacitive 1920 x 1080 (1000 ntd)
  - Performance model: 14.0” FHD 1920 x 1080
- Prime and Life models: 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)

AUDIO
- Integrated dual microphone
- Intel® High Definition Audio compliant
- Integrated speakers
- Integrated microphone
- Optional contactless SmartCard CAC reader
- Optional fingerprint reader2
- LIND Solar Charge System  PASC1580-4464
- LIND Car Charger 120W     CF-LNDDC120
- Battery Charger      CF-VCBTB3W
- Media Bay 2nd Battery Pack4     CF-VZSU0KW
- Long Life Battery Pack      CF-VZSU0PW
- Gloved Multi Touch Model: Stylist pen, stylus holder and cleaning cloth are optional2
- Gloved Multi Touch Model: Supports glide mode and raw mode
- 2 user-definable keys [A1/A2]
- 9 key with dedicated Windows® key
- Emissive backlight keyboard with adjustable levels
- Electrostatic touchpad with multi touch

DVD DRIVE
- Optional DVD Super MULTI Drive4

INTERFACE & EXPANSION
- Docking Connector
  - USB 3.0 (x 3)
  - Type A (including one 1.5A port)
- USB 2.0 (x 1)
  - Type A
- Optional Gigabit Ethernet
  - RJ-45
- Optional Serial (True)
  - D-sub 9-pin
- Optional PC Card Type A
- Optional SIM

WIRELESS
- Opt. 4G LTE: Advanced multi carrier mobile broadband w/ satellite GPS
  - Certified with AT&T, Freedom™, Verizon, Sprint and Fi LTE®
  - Optional dedicated GPS (u-blox N60 MINI)1
  - Optional dual high-gain antenna pass-through
- Internal Dual Band Wireless-AC 8265 Wi-Fi 802.11abgn/n/ac
- Bluetooth® v4.2 + EDR (Class 1)
- Slide on/off switch

POWER
- Lithium-ion battery pack
  - Lite model (lightweight battery): 10.8V, typical 3220mAh, min. 3050mAh
  - Other models (long life battery): 11.1V, typical 4200mAh, min. 3880mAh
  - Media Bay 2nd battery: 11.1V, typical 2900mAh, min. 2800mAh
- Battery operation1
  - Lite model: 7 hours (14 hours with option 2nd battery)
  - Performance & Touch models: 10 hours (17 hours with 2nd battery)
- Fast swap with optional media bay 2nd battery
- Battery charging time: 2.5 hours (each battery)7
  - Quick charge: 90% charge in approx 1 hour
  - AC Adapter: 100V-240V 50/60Hz, auto sensing/switching worldwide power supply

SECURITY FEATURES
- TPM 2.0
- NIST Biometric Compliant
- Persistence2 technology by Absolute® embedded in BIOS®
- Kensington lock slot
- Optional fingerprint reader2
- Optional infrared SmartCard CAC reader (bottom)
- Optional contactless SmartCard CAC reader2
- 13.5A/slope (CE 14443 A/B compliant)

WARRANTY
- 3 year limited warranty, parts and labor

DIMENSIONS & WEIGHT
- 10.7”L x 13.6”W x 1.2”H1
- 4.2 lbs. (Lite model), 4.44 lbs (Prime model)
- 4.4 lbs. (Performance and Gloved Multi Touch models)

INTEGRATED OPTIONS
- 4G LTE multi carrier mobile broadband with satellite GPS (EM7455 or Band 14 EM7451)
  - Dual antenna pass-through1
  - Dedicated GPS (u-blox) or 2nd LAN or 4th USB (2.0) or rugged Fischer USB1
  - 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 reader2
  - Insertable SmartCard CAC reader (bottom)

SELECT ACCESSORIES
- AC Adapter 100W (3-prong)
  - CA-AA173AM
  - Long-Life Battery Pack
  - CF-VZSU0PW
  - Lightweight Battery Pack
  - CF-VZSU1LW
  - Media Bay 2nd Battery Pack
  - CF-VZSU1W
  - Battery Charger
  - CF-WB71SW
  - LIND Car Charger 120W
  - CF-LNDC120
  - LIND Soldier System
  - PACS1580-4464
  - ToughMate Always-on 4 bay Case
  - TBC5040CS-P
  - ToughMate Combi/Universal Carrying Case
  - TBCOM00UNV-P
  - ToughMate Backpack
  - TBCPK-P
  - Memory Cards (SDAM)
  - 8GB SDHC
  - 16GB SDHC
  - 32GB SDXC
  - 64GB SDXC
  - 128GB SDXC

Please consult your reseller or Panasonic representative before purchasing.
1 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 on base model.
2 Not available on Lite model
3 1GB = 1,000,000,000 bytes. Total usable memory will be less depending upon actual system configuration.
4 DVD, PC Card insertable SmartCard CAC (media bay), Media Bay 2nd Battery and stylus pen holder are mutually exclusive.
5 As an alternative, units can also be configured with optional SmartCard CAC module (bottom). NOTE: DVD drive is serviceable by trained and authorized professionals only – please contact a Panasonic representative for program details.
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 conditions and other customer preferences. Battery testing results from MobileMark 2014 at 150 nit and using no cellular mobile broadband.
8 Requires software and activation to enable multi-touch
9 3.5” height or Performance model and all models with the following integrated options: Insertable SmartCard (bottom), 2nd LAN, 4th USB (2.0), rugged Fischer USB and 2nd LAN are mutually exclusive.
10 Contactless SmartCard CAC and fingerprint readers are mutually exclusive.
11 Battery operation and recharge times will vary depending on your notebook configuration. Not all items are currently available. Visit Panasonic website for more accessories and details.
12 For more information about Panasonic P.180, please visit, PanasonicP180.com.
13 Accessory and integrated Options may vary depending on your notebook configuration. Not all items are currently available. Visit Panasonic website for more accessories and details.
14 Requires special order. Please contact a Panasonic representative for details.