Toughbook 54 - Semi-Rugged Notebook

The Panasonic Toughbook 54 semi-rugged notebook boasts a 5th Generation Intel Core i5 vPro™ processor, 11 hours of battery life — 18 hours with an optional hot-swappable second battery — and a wide range of integrated options. It is a reliable and versatile tool for mobile workers in demanding markets such as video production, insurance, utilities, construction, field service, public safety, and government.

It meets military standard MIL-STD-810G for altitude, humidity, and dust. It can also handle being dropped from 3 feet. It has a spill-resistant keyboard and a built-in handle. The Toughbook 54's shock-mounted flex-connect hard disk drive with quick release can handle bumps and vibrations to keep your important data safe. An optional hard drive heater is available for working in cooler environments. Optional solid state drives are also available for even more protection from accidental drops.

The 14-inch display has a 1,366 x 768 resolution (720p). An optional sunlight viewable 10-point capacitive Gloved Multi Touch model with stylus is available for greater flexibility and outdoor use.

Embedded wireless connectivity on the Toughbook 54 includes Intel Dual Band Wireless-AC 7265 802.11a/b/g/n/ac, Bluetooth, and optional 4G LTE multi-carrier wireless broadband with satellite GPS. Dedicated GPS (u-blox) and antenna pass through are also available as an option.

For professionals who need power in addition to rugged portability, the Toughbook 54 is available with discrete graphics, dual drives, up to 16GB of memory, a 1080p full HD display, and webcam. Four models are available to meet customer demand — Lite, Prime, Gloved Multi Touch, and Performance — with each one designed to assure a high long-term return on investment for a diverse range of businesses and government agencies.

Features

- 14" high definition (720p) LED display
- Optional sunlight-viewable touchscreen
- Oversized touchpad with multi touch
- Magnesium alloy case with handle

- Drop and spill-resistant
- 4G LTE Mobile Broadband
- Shock-mounted, removable hard Drive
- 3-Year warranty with Preferred Service

Group Mobile
5590 W. Chandler Blvd. Suite 3
Chandler, AZ 85226
Toll Free: 1-866-RUGGED8
Fax: 480-247-2750
www.groupmobile.com

Product Specifications

Operating System:
- Windows 8.1 Pro 64-bit (with Windows 7 downgrade option)

Processor:
- Intel Core i5-5300U vPro Processor
  – 2.3GHz with Turbo Boost up to 2.9GHz
  – Intel Smart Cache 3MB

Storage:
- Primary Hard Drive (quick-release)
  – 500GB HDD (5400rpm Lite model; 7200rpm other models)
  – Optional hard drive heater
  – Optional 128GB SSD, 256GB SSD, 1TB 7200rpm HDD
- Optional Second Drive (onboard)
  – 128GB SSD or 256GB SSD
  – Optional hard drive heater
  – Trained technician removable

Memory:
- Performance model: 8GB or 16GB SDRAM (DDR3L-1600MHz)
- Other models: 4GB, 8GB or 16GB SDRAM (DDR3L-1600MHz)

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
- IPS with direct bonding on FHD displays
- Anti-reflective and anti-glare screen treatments
- Graphics
  – Intel HD Graphics 5500 (all models)
  – AMD FirePro M5100 (Performance model)
- Dual monitor support through HDMI and/or optional VGA
- Concealed mode (configurable)

Wireless:
- Optional integrated 4G LTE 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

Integrated Options:
- 4G LTE multi carrier mobile broadband with satellite GPS
- Dual antenna pass-through
- Dedicated GPS (u-blox) or 2nd LAN or 4th USB (2.0) or rugged Fischer USB
- PC Card or DVD drive or media bay 2nd battery
- Contactless SmartCard/NFC or fingerprint readers
- Insertable SmartCard reader (bottom)
- Serial
- VGA
- 1080p webcam and mic
- Primary hard drive (quick-release):
    - 128GB SSD, 256GB SSD and 1TB 7200rpm HDD with heaters
- 2nd hard drive (onboard):
    - 128GB SSD and 256GB SSD with heaters

Interface:
- Docking connector (24-pin)
- HDMI (Type A)
- Optional VGA (D-sub 15-pin)
- Headphones/Mic (Mini-jack stereo)
- Optional Serial (D-sub 9-pin)
- USB 3.0 (x 3) (Type A)
- Optional USB 2.0 (x 1) (Type A)
- Rugged Fischer USB (Core Series)(5-pin)
- 10/100/1000 Ethernet (RJ-45)
- Optional 10/100 2nd LAN (Ethernet) (RJ-45)

Expansion Slots:
- PC card type II x 1
- SD Card (SDXC UHS-II)

Keyboard & Input:
- Touch, gestures and stylus pen (Gloved Multi Touch model)
- 2 user-definable keys (A1/A2)
- Dashboard
- 87-key with dedicated Windows key
- Emissive backlit keyboard
- Electrostatic touchpad with multi touch support

Audio:
- Intel® high-definition audio compliant
- Integrated speakers
- Keyboard volume and mute controls

Cameras:
- Optional 1080P webcam with mic and camera on/off indicator

DVD Drive:
- Optional DVD Super MULTI Drive

Power Supply
- Li-Ion battery pack:
  – 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 battery: 11.1V, typical 2960mAh, min. 2860mAh
- Battery operation:
  – Lite model: 8 hours (15 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)
- AC Adapter: AC 100V-240V 50/60Hz, auto sensing/switching worldwide power supply
- Battery status and battery hot-swap LED indicators

Power Management:
- Suspend/Resume Function, Hibernation, Standby, ACPI BIOS

Security Features:
- 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 BIOS
- Optional fingerprint reader
- Optional insertable SmartCard reader
- Optional 13.56MHz contactless SmartCard/NFC reader
  – ISO 15693 and 14443 A/B compliant

Dimensions & Weight:

- 10.7"(L) x 13.6"(W) x 1.2"(H)
- 4.2 lbs. (Lite model), 4.4 lbs. (Prime model)
- 4.6 lbs. (Performance and Gloved Multi Touch models)

Durability Features:

- MIL-STD-810G design (3' drop, shock, vibration, dust, altitude, high/low temperature, temperature shock, humidity
- IP5x dust protected design
- 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 mode)

Warranty:

- 3-year limited warranty, parts & labor

Consider purchasing these additional items to make your new portable computer more efficient, convenient, and a complete mobile solution. Pricing and information specific to your make and model can be found on our website, or you can discuss your options with your sales professional for expert guidance and suggestions. Not all of these additional items are available for all types or brands of portable computer.

Additional RAM Memory: Adding additional RAM memory is often the easiest and least expensive way to upgrade your computer for a significant boost in performance. The computer's RAM memory is its workspace, or where all of the instructions it needs to act on are stored temporarily.

Additional Storage: A computer's hard drive stores your operating system, programs and files. Hard drive space is measured in gigabytes (GB) and the higher the GB level the greater the collective file size of everything you can save on the computer. Some computer models offer spare, removable hard drives, while others offer an external hard drive.

External Drives: Some computer models come with a DVD/CD Multi drive, meaning you can read and write CD's and DVD's. Other computer models require an external USB drive. Also, some manufacturers offer an external floppy disk drive.

Power Options: Having additional power options available will keep you from running out of power at just the wrong time, there are several options available:

Additional AC Adapter – A convenient extra AC Adapter with Power Cord allows you to keep one at home and one at the office, no need to carry it back and forth.

Automobile Adapter – The automobile power adapter, also known as a cigarette lighter adapter, allows you to power your portable computer while in your vehicle, as well as charge your battery. Some of these adapters can also be used on an airplane.

External Battery Charger – The external battery charger allows you to keep your battery charged, it does not come with an AC Adapter – you can use the one that comes with the computer or purchase an additional one.

Spare Batteries - Purchase additional or replacement batteries to ensure you will always have one available. Some computers also have a place for a secondary battery, such as in the media bay. Check with your sales professional if you would like more information on these options for your model.

Mobile Printers and Scanners - A mobile printer or scanner increases your efficiency, no more running back to the office to print documents or receipts or to scan information to your computer. Our lineup of mobile printers are ready to go anywhere, they are small, lightweight, and available in different output sizes. Whether you need a full size page or just a receipt, we have the mobile printer or scanner for you.

Security Options – Keeping your investment secure is a priority, and there are several options available. Depending on the computer & model these include fingerprint scanner, smartcard reader, cable lock slot etc.

ComputraceComplete – (LoJack for your portable computer) – Computrace works behind the scenes to silently and securely contact the Absolute Monitoring Center. Using any type of internet connection, the computer makes contact every 24 hours to report its location. If a computer is reported missing or stolen, the machine is flagged to call in every 15 minutes and then the Absolute Recovery Team goes to work. The team provides law enforcement with tracking information to pinpoint the physical location of the computer and documentation needed to obtain subpoenas and procure search warrants. However, not every computer manufacturer offers computrace.

Targus DEFCON Notebook Computer Locks – The Targus DEFCON Notebook Computer Lock comes in either a cable or key lock. The lock is a 6 ft. steel cable that is cut resistant galvanized steel and can be wrapped around any secure object and attached to your cable lock slot that is built into most notebook computers. Any attempt to remove the lock will visibly damage the computer, preventing resale therefore discouraging theft. Don't let your computer be one of the nearly 1,000 portable computers stolen every day.

Other Accessories – There are many accessory items available to make using your computer more convenient and efficient, as well as user friendly. Some of these items include: carry cases designed for your model, port replicators making it easy

to create a "desktop" environment or adding additional ports to your computer, extra stylus pens so a misplaced or forgotten pen won't slow you down, and protector films to ensure your display screen stays clear and clean.

Vehicle Docks and Mounts - Vehicle mounts hold your computer safely in place and allow for safe and comfortable use while in a vehicle. With custom fit bases, height adjustable poles, and docking station and you can run antennas, use the vehicle battery or add other peripherals for a complete mobile solution.

Warranty Extensions & Upgrades – Some warranty options and upgrades are only available at time of product purchase, but there are some manufacturers that will allow upgrades or extensions to be purchased at a later time.

Product Shots

Group Mobile
5590 W. Chandler Blvd. Suite 3
Chandler, AZ 85226
Toll Free: 1-866-RUGGED8
Fax: 480-247-2750
www.groupmobile.com