Panasonic

Panasonic recommends Windows.

TOUGHBOOK 55

- Innovative modular design and user-removable expansion packs offer unparalleled customization

- Unprecedented battery life — up to 40 hours MobileMark 2014 with optional 2nd battery

- MIL-STD-810H and IP53 certified magnesium alloy design with built-in handle

- Backwards compatibility with the previous generation of vehicle and desktop docks

- State of the art technology including infrared webcam with tetra-array microphones and privacy cover

- Optional FirstNet Ready™ EM7511 Band 14 mobile broadband

MIL-STD-810H

IP53

3-FOOT
DROP RATING

P.180
GET WORK DONE.™

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

The Panasonic TOUGHBOOK® 55 breaks new ground offering unrivaled flexibility in even the most demanding and unpredictable environments with its innovative modular expansion packs. I/O, optical drives, authentication readers, and even discrete graphic expansion packs are user-upgradeable. Backwards compatibility with the previous generation of docks protects customers' investments while saving time and resources. Built with state of the art technology, the TOUGHBOOK 55 offers the latest Intel® 8th Gen vPro™ quad-core processors, up to 64GB of RAM, up to 2TB of storage, all-day battery life, 4 microphones provide unparalleled speech recognition accuracy, color-selectable backlit keyboard, crisp and powerful 92db speakers, faster and more secure Wi-Fi, and a 25% larger touchpad.

1.800.662.3537
na.panasonic.com/us/TOUGHBOOK55

mk1

GLACIER
COMPUTER

TOUGHBOOK 55

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-810H certified (3' drop, shock, vibration, sand, dust, altitude, freeze/thaw, high/low temperature, high temperature tactical, temperature shock, humidity)[1]
- IP53 certified[1]
- ASTM D4169-16 certified[1]
- Spill-resistant keyboard
- Magnesium alloy case with handle
- Storage drive heater
- Caged storage drive
- User-removable quick-release battery and storage drive
- User-removable modular expansion packs, RAM and keyboard[2]

OPERATING SYSTEM
- CPU
  – Intel® Core™ i5-8365U vPro™ processor
    1.6GHz with Turbo Boost up to 4.1GHz, 6MB cache
  – Intel® Core™ i7-8665U vPro™ processor
    1.9GHz with Turbo Boost up to 4.8GHz, 8MB cache
- Graphics
  – Intel® UHD Graphics 620
  – Optional AMD Radeon™ Pro WX 4150 (expansion pack)[3]
- Memory (RAM) - 2 slots user-upgradeable
  – 8GB up to 64GB total (DDR4-2133MT/s)[4,5]
- Main Storage Drive caged with heater (quick-release)
  – 512GB or 1TB M.2 SSD[4,5]
  – Optional OPAL encrypted SSD
- Optional 2nd Storage Drive caged with heater (quick-release)
  – 512GB or 1TB M.2 SSD[4,5]

DISPLAY
- Display Size and Resolution
  – 14.0" HD 1366 x 768
  – 14.0" FHD 1000 nit touch 10-pt. capacitive 1920 x 1080[5]
- IPS with direct bonding
- Anti-reflective (AR) and anti-glare (AG) screen treatments
- External monitor support through HDMI, USB-C and optional VGA
- Concealed Mode (configurable)
- Day/Night Mode (configurable)

AUDIO
- Integrated dual speakers (up to 92db)
- Intel® High Definition Audio compliant
- Keyboard volume and mute controls

CAMERAS
- 1080p webcam with privacy cover and tetra-array microphones (4 mics)
  – Infrared with Windows Hello support

KEYBOARD & INPUT
- Touch FHD model: Stylus pen, stylus holder and cleaning cloth
- Touch FHD model: Supports glove mode
- User-removable 87-key US keyboard[2]
  – 4 user-definable keys (A1-A4)
  – Color-selectable emissive backlit keyboard with 4 adjustable levels
- 5 backlit keyboard icons (Caps lock, Num Lock, Scroll Lock, Storage Drive, SD Card)
- Electrostatic touchpad with multi touch

OPTICAL DRIVE
- Optional Blu-ray Drive (expansion pack)[3]
- Optional DVD Drive (expansion pack)[3]

INTERFACE
Docking Connector	24-pin
USB-A: 3.1 Gen 1 (x2), optional 3rd USB-A[6]	Type A (including one 1.5A port)
USB-C: 3.1 Gen 1 with optional Power Delivery	Type C
Optional Rugged Fischer® USB (Core Series)[6]	5-pin
MicroSDXC	UHS-I
HDMI	2.0
Optional VGA[6]	D-sub 15-pin
1 Gbps Ethernet (optional 2nd LAN[6])	RJ-45
Audio In/Out	3.5mm Mini-jack stereo
Optional Serial (True)[6]	D-sub 9-pin
Nano-SIM	4FF

WIRELESS
P.180 GET WORK DONE.™
- Opt. 4G LTE EM7511 Band 14 multi carrier mobile broadband with satellite GPS
  – Certified with AT&T, FirstNet™, Verizon and P.180
- Optional dedicated GPS (u-blox NEO-M8N)
- Optional dual high-gain antenna pass-through
- Intel® Wireless-AC 9560 Wi-Fi 802.11a/b/g/n/ac
  – Up to 1.7 Gbps and up to 256-bit AES encryption
- Bluetooth® v5.0 (Class 1)
- Airplane mode Fn key

POWER
- Li-Ion battery pack:
  – 10.8V, typical 6500 mAh, min. 6300 mAh
- Battery operation[7]:
  – HD model: 20 hours (40 hours with opt. 2nd battery)[8]
  – Touch FHD model: 19 hours (38 hours with opt. 2nd battery)[8]
- Hot swap with optional 2nd battery[8]
- Battery charging time: 3 hours (each battery)[7]
- TOUGHBOOK Smart Battery Technology
- AC Adapter: AC 100V-240V worldwide power, auto sensing/switching

SECURITY FEATURES
- TPM v2.0
- NIST BIOS compliant
- Intel vPro™ including Intel® Hardware Shield
- Persistence® technology by Absolute embedded in BIOS[9]
- Kensington cable lock slot
- Optional locking screws for SSD and expansion packs
- Optional touch fingerprint reader (expansion pack)[8]
- Optional insertable SmartCard CAC readers - up to 2 (expansion packs)[3,8]
- Optional contactless SmartCard CAC reader (expansion pack)[8]
- 3 A/B compliant)

WARRANTY
- 3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT
- 10.7"(L) x 13.6"(W) x 1.3"(H)
- 4.6 lbs. (HD model), 4.9 lbs. (Touch FHD model)

INTEGRATED OPTIONS[10]
- 4G LTE Band 14 EM7511 multi carrier mobile broadband with satellite GPS
- Optional dedicated GPS
- Dual antenna pass-through
- *Rear Expansion Area:* VGA+Serial+USB-A or VGA+Serial+Rugged Fischer USB or VGA+Serial+LAN
- *Front Expansion Area:* 2nd Battery or Fingerprint Reader or Contactless SmartCard CAC or Insertable SmartCard CAC
- *TOUGHBOOK Universal Bay Expansion Area:* Insertable SmartCard CAC Reader or DVD Drive or Blu-ray Drive or AMD Dedicated Graphics or 2nd SSD Drive

SELECT ACCESSORIES[10]
AC Adapter 100W (3-prong)	CF-AA5713A2M
Battery Pack	FZ-VZSU1HU
4-Bay Battery Charger	FZ-VCB551M
LIND Car Charger 120W	CF-LNDDC120
LIND Solar Charge System	PASC1580-4464
ToughMate ComUniversal Carrying Case	TBCCOMUNV-P
ToughMate Backpack	TBCBPK-P
Memory Cards (RAM)	
– 8GB DDR4	FZ-BAZ1908
– 16GB DDR4	FZ-BAZ1916
Desktop Dock	CF-VEB541AU
Vehicle Docks (dual pass-through)	
– Gamber-Johnson with LIND power supply	7170-0251-P
– Havis with LIND power supply	HA-55LVD2L
AntennaPlus Dual LTE & GPS Antenna Kit	
– Threaded Black Mount	AP-PAN-CCGPD-Q-BL
– Threaded White Mount	AP-PAN-CCGPD-Q-WH
Stylus Pen (for Touch models)	FZ-VNP551U
Tether	FZ-VNT005U
14.0" Screen Protector	CF-VPF29U
Screws Set (set of 14 locking/replacement)	FZ-VSW551U
Rear Expansion Area	
– VGA + Serial + USB-A xPAK	FZ-VCN551W
– VGA + Serial + LAN xPAK	FZ-VCN552W
– VGA + Serial + Rugged Fischer USB xPAK	FZ-VCN553W
Front Expansion Area	
– Fingerprint Reader xPAK	FZ-VFP551W
– Contactless SmartCard Reader xPAK	FZ-VNF551W
– Insertable SmartCard xPAK	FZ-VSC551W
TOUGHBOOK Universal Bay Expansion Area	
– Insertable SmartCard xPAK	FZ-VSC552W
– Blu-ray Drive xPAK	FZ-VBD551W
– DVD Drive PAK	FZ-VDM551W
– AMD Dedicated Graphics xPAK	FZ-VGT551W
– 512GB SSD 2nd Drive xPAK	FZ-VSD55151W
– 1TB SSD 2nd Drive xPAK	FZ-VSD551T1W
512GB SSD Main Drive	FZ-VSDR5551W
1TB SSD Main Drive	FZ-VSDR55T1W

Please consult your reseller or Panasonic representative before purchasing.

[1] Tested by national independent third party lab following MIL-STD-810H Method 516.8 Procedure IV for transit drop test and IEC 60529 Sections 13.4, 13.6.2, 14.2.5 and 14.3 for IP53.

[2] Keyboard is user-replaceable, but once removed, the old keyboard must be discarded.

[3] Insertable SmartCard CAC Reader, DVD Drive, Blu-ray Drive, AMD Dedicated Graphics and 2nd SSD Drive in TOUGHBOOK Universal Bay area are mutually exclusive.

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

[5] 64GB RAM, 256GB SSD and/or FHD 1000 nit non-touch are available but requires special order. Please contact a Panasonic representative for details.

[6] VGA+Serial+USB-A or VGA+Serial+Rugged Fischer USB or VGA+Serial+LAN in Rear Expansion Area 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 from MobileMark 2014 at 150 nit and using no cellular mobile broadband.

[8] 2nd Battery or Fingerprint Reader or Contactless SmartCard CAC or Insertable SmartCard CAC in Front Expansion area are mutually exclusive.

[9] Requires software and activation to enable theft protection.

[10] Accessories and Integrated Options may vary depending on your notebook configuration. Visit Panasonic website for more accessories and details.

intel CORE i5 vPro 8th Gen

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