



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 YOUR 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.

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TOUGHBOOK®

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 certified¹
- ASTM D4169-16 certified¹
- 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 keyboard²

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 1080⁵
- 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 keyboard²
 - 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-A⁶ 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 VGA⁶ D-sub 15-pin
- 1 Gbps Ethernet (optional 2nd LAN⁴) RJ-45
- Audio In/Out 3.5mm Mini-jack stereo
- Optional Serial (True)⁶ D-sub 9-pin
- Nano-SIM 4FF

WIRELESS



- 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 operation⁷:
 - HD model: 20 hours (40 hours with opt. 2nd battery⁸)
 - Touch FHD model: 19 hours (38 hours with opt. 2nd battery⁸)
- Hot swap with optional 2nd battery⁸
- 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 BIOS⁹
- 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)⁸
- Optional contactless SmartCard CAC reader (expansion pack)⁸
 - 13.56MHz (ISO 14443 A/B compliant)

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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 OPTIONS¹⁰

- 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 ACCESSORIES¹⁰

- 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 CF-H-PAN-422-2-P
- 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 9 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-VNS551W
- TOUGHBOOK Universal Bay Expansion Area
 - Insertable SmartCard xPAK FZ-VSC552W
 - Blu-ray Drive xPAK FZ-VBD551W
 - DVD Drive xPAK FZ-VDM551W
 - AMD Dedicated Graphics xPAK FZ-VGT551W
 - 512GB SSD 2nd Drive xPAK FZ-VSD55151W
 - 1TB SSD 2nd Drive xPAK FZ-VSD55111W
 - 512GB SSD Main Drive FZ-VSDR5551W
 - 1TB SSD Main Drive FZ-VSDR5511W

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 T3.4, T3.6, T.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.



TOUGHBOOK®

TOUGHBOOK 54 AND TOUGHBOOK 55

SIDE BY SIDE MODEL COMPARISON

FEATURES	PANASONIC TOUGHBOOK® 54 MK3	PANASONIC TOUGHBOOK® 55 MK1
Form Factor	Laptop	Laptop
Rugged Level	Semi Rugged	Semi Rugged
810G Drop Rating	3 foot	3 foot
IP Rating	51	53
Storage Drive Heater	Yes	Yes
Handle	Yes	Yes
Processor	Intel® Core™ i5-7300U 2.6GHz vPro™ (Turbo Boost up to 3.5GHz) Intel® Core™ i7 (special request)	Intel® Core™ i5-8365U 1.6GHz vPro™ (Turbo Boost up to 4.1GHz) Intel® Core™ i7 (optional)
Processor Class & Generation	Standard Voltage - 7th Gen (Kaby Lake)	Standard Voltage - 8th Gen (Whiskey Lake)
Cache	3MB (4MB on i7)	6MB (8MB on i7)
Display	Optional touchscreen (capacitive)	Optional touchscreen (capacitive)
Resolution	14.0" HD (112 PPI); FHD touch/perf (157 PPI)	14.0" HD (112 PPI); opt. FHD touch 1000 nit (157 PPI); special order FHD non-touch 1000 nit (157 PPI)
Glove & Wet Operation	Yes	Yes
Video Adapter	Intel® HD 620; AMD Radeon™ Pro WX 4150 (perf model)	Intel® UHD 620; Optional AMD Radeon™ Pro WX 4150
Operating Systems	Windows® 10 Pro	Windows® 10 Pro
Memory (RAM)	8-32GB DDR4 user-upgradeable	8-32GB DDR4 user-upgradeable
Main Storage Drive	256GB-1TB SSD	512GB-1TB SSD (256GB available special order)
Main Storage Drive Removable	Yes – Quick-release	Yes – Quick-release
2nd Storage Drive	256GB-1TB SSD	512GB-1TB SSD (256GB available special order)
2nd Storage Drive Removable	No	Yes – Quick-release
Optical Drive	Optional (DVD); Special order (Blu-ray)	Optional (DVD or Blu-ray)
Webcam	1080p	1080p IR with privacy cover
Mic	x2 (dual array)	x4 (tetra-array)
Speakers	x2 (85db)	x2 (92db)
Audio 3.5mm Port	x1	x1
USB Type A Ports	x3 (USB 3.0), optional USB 2.0 x1	x2 (3.1 Gen 1), optional 3rd USB 3.1 Gen 1
USB Type C Ports	-	x1 (3.1 Gen 1) with optional PD
Rugged Fischer® USB Port	Optional	Optional
SD Card Slot	x1 (SDXC)	x1 (MicroSDXC)
Video Outputs	x1 (optional 2nd) – HDMI 1.4 standard, VGA optional	x2 (optional 3rd) – HDMI 2.0 & USB-C standard, VGA optional
Serial Port (True)	Optional	Optional
PC Card Slot	Optional	-
Ethernet	1 Gbps x1 (optional 2nd)	1 Gbps x1 (optional 2nd)
Wi-Fi	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac
Wi-Fi Processor	Intel Dual Band Wireless-AC 8265 (up to 867 Mbps)	Intel Wireless-AC 9560 (up to 1.7 Gbps)
Bluetooth	4.1 (Class 1)	5.0 (Class 1)
Mobile Broadband	4G LTE (7455 or EM7511 Band 14)	4G LTE (EM7511 Band 14)
Dedicated GPS (dGPS)	Optional (u-blox M8N)	Optional (u-blox M8N)
Dual Pass	Optional	Optional
Keyboard	Yes (Red backlight)	Yes (Color-selectable backlight)
Keyboard Removable	No	Yes
Kensington Lock Slot	x1	x1
TPM	2.0	2.0
Persistence® Technology in BIOS	Yes	Yes
Fingerprint Reader	Optional (swipe)	Optional (touch)
Insertable SmartCard Reader	Optional (up to 2 locations)	Optional (up to 2 locations)
Contactless SmartCare Reader	Optional	Optional
Hot Swap	Optional (with 2nd battery)	Optional (with 2nd battery)
Battery Life	12h prime model (20h w/opt 2nd battery) MobileMark 2014	20h non-touch model (40h w/opt 2nd battery) MobileMark 2014
Dimensions (including handle)	10.7" x 13.6" x 1.2" (1.5" with bump out)	10.7" x 13.6" x 1.3"
Bump Out	Yes (some models)	No (all models flat)
Modular Design	No	Yes
Weight	4.4 lbs (prime model)	4.6 lbs (non-touch model)

Shaded cells indicate a difference