



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 EM7511 Band 14 mobile broadband

MIL-STD-810H

IP53

3-FOOT DROP RATING

## ONE OF THE WORLD'S LIGHTEST AND THINNEST SEMI-RUGGED LAPTOPS 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 graphics 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 quad core CPU, all-day battery life, infrared webcam with 4 microphones provides unparalleled speech recognition accuracy, color-selectable backlit keyboard, crisp and powerful 92dB speakers, faster and more secure Wi-Fi, faster and longer range Bluetooth®, and 25% larger touchpad.

# TOUGHBOOK 55

## 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-810H certified (3' drop, shock, vibration, sand, dust, altitude, freeze/thaw, high/low temperature, high temperature tactical, temperature shock, humidity)<sup>1</sup>
  - IP53 certified<sup>1</sup>
  - ASTM D1469-14 certified<sup>1</sup>
  - Spill-resistant keyboard
  - Magnesium alloy case with handle
  - Storage drive heater
  - Caged storage drive
  - Removable quick-release battery and storage drive
  - Removable modular expansion packs, RAM and keyboard

## 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)<sup>2</sup>
- Memory (RAM) - 2 slots user-upgradeable
  - 8GB up to 32GB total (DDR4-2133MT/s)<sup>3</sup>
- Main Storage Drive caged with heater (quick-release)
  - 512GB or 1TB M.2 SSD<sup>3,4</sup>
  - Optional OPAL encrypted SSD
- Optional 2nd Storage Drive caged with heater (quick-release)
  - 512GB or 1TB M.2 SSD<sup>3,4</sup>

## DISPLAY

- Display Size and Resolution
  - 14.0" HD 1366 x 768
  - 14.0" FHD 1000 nit touch 10-pt. capacitive 1920 x 1080<sup>4</sup>
- 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 and rain mode
- 4 user-definable keys (A1-A4)
- Removable keyboard featuring 87-keys including a dedicated Windows® key<sup>5</sup>
- 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)<sup>2</sup>
- Optional DVD Drive (expansion pack)<sup>2</sup>

## INTERFACE

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

## WIRELESS

- Opt. 4G LTE EM7511 Band 14 multi carrier mobile broadband with satellite GPS
- 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<sup>7</sup>:
  - HD model: 20 hours (40 hours with opt. 2nd battery<sup>8</sup>)
  - Touch FHD model: 19 hours (38 hours with opt. 2nd battery<sup>8</sup>)
- Hot swap with optional 2nd battery<sup>8</sup>
- Battery charging time: 3 hours (each battery)<sup>7</sup>
- 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<sup>9</sup>
- Kensington cable lock slot
- Optional locking screws for SSD and expansion packs
- Optional touch fingerprint reader (expansion pack)<sup>8</sup>
- Optional insertable SmartCard CAC readers - up to 2 (expansion packs)<sup>8</sup>
- Optional contactless SmartCard CAC reader (expansion pack)<sup>8</sup>
  - 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 OPTIONS<sup>10</sup>

- 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<sup>10</sup>

- AC Adapter 100W (3-prong) CF-AA5713A2M
- Battery Pack FZ-VZSU1HU
- 4-Bay Battery Charger FZ-VCB551U
- LIND Car Charger 120W CF-LNDDC120
- LIND Solar Charge System PASC1580-4464
- ToughMate ComUniversal Carrying Case TBCCOMUNV-P
- ToughMate Backpack TBCBP-K
- Memory Cards (RAM)
  - 8GB DDR4 FZ-BAZ1908
  - 16GB DDR4 FZ-BAZ1916
- Desktop Dock CF-VEB541AU
- Vehicle Docks (dual pass-through)
- 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
- Screw set (set of 9 xPAK 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 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 xPAK FZ-VSDR5551W
  - 1TB SSD Main Drive xPAK FZ-VSDR5511W

Please consult your reseller or Panasonic representative before purchasing.

<sup>1</sup> Tested by national independent third party lab following MIL-STD-810H 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 IP53.

<sup>2</sup> Insertable SmartCard CAC Reader, DVD Drive, Blu-ray Drive, AMD Dedicated Graphics and 2nd SSD Drive in TOUGHBOOK Universal Bay area are mutually exclusive.

<sup>3</sup> 1GB = 1,000,000,000 bytes. Total usable memory will be less depending upon actual system configuration.

<sup>4</sup> 256GB SSD and/or FHD 1000 nit non-touch are available but requires special order. Please contact a Panasonic representative for details.

<sup>5</sup> Keyboard is user-upgradeable, but once removed, the old keyboard must be discarded.

<sup>6</sup> VGA+Serial+USB-A or VGA+Serial+Rugged Fischer USB or VGA+Serial+LAN in Rear Expansion Area are mutually exclusive.

<sup>7</sup> 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.

<sup>8</sup> 2nd Battery or Fingerprint Reader or Contactless SmartCard CAC or Insertable SmartCard CAC in Front Expansion area are mutually exclusive.

<sup>9</sup> Requires software and activation to enable theft protection.

<sup>10</sup> Accessories and Integrated Options may vary depending on your notebook configuration. Visit Panasonic website for more accessories and details.



**TOUGHBOOK**