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Panasonic



TOUGHBOOK 55

- Innovative modular design and user-removable xPAK's offer unparalleled customization
- Unprecedented battery life — up to 38 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

AWARD WINNING MODULAR DESIGN AND ALL-DAY BATTERY LIFE

The Panasonic TOUGHBOOK® 55 breaks new ground offering unrivaled flexibility in even the most demanding and unpredictable environments with its innovative modular expansion packs (xPAK's). I/O, optical drives, authentication readers, and even the new barcode reader xPAK are all 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® 11th 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, and blazing fast Wi-Fi 6.

MIL-STD-810H

IP53

3-FOOT DROP RATING

TOUGHBOOK®

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TOUGHBOOK 55 Mk2

SPEC SHEET

TOUGHBOOK 55

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SOFTWARE

- Windows® 10 Pro 64-bit
- Panasonic Utilities and Recovery Partition
- Enterprise ready driver packages including CAB files and one-click driver bundles

CERTIFICATIONS AND DURABILITY

- MIL-STD-810H: 3' drop, shock, vibration, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, humidity)[1]
- IP53[1]
- ASTM D4169-16[1]
- Spill-resistant keyboard
- Magnesium alloy chassis with handle
- User-removable xPAK's, RAM, keyboard, battery and caged SSD (w/heater)[2]
- Raised bezel for LCD impact protection
- Replaceable screen protector

CPU

- Intel® Core™ i5-1145G7 vPro™ processor
  - Up to 4.4GHz with Turbo Boost, 8MB cache
- Intel® Core™ i7-1185G7 vPro™ processor
  - Up to 4.8GHz with Turbo Boost, 12MB cache

STORAGE & MEMORY

- User-upgradeable RAM (up to 2 DIMM's) 16-64GB total (DDR4-3200MHz)[3,4]
- Main Drive: 512GB, 1TB or 2TB quick-release OPAL NVMe SSD with heater[3]
- Optional 2nd Drive: 512GB or 1TB quick-release OPAL SATA SSD with heater[3]

DISPLAY & GRAPHICS

- Display
  - 14.0" HD 1366 x 768
  - 14.0" FHD 1920 x 1080 capacitive touch (1000 nit)[5]
- Graphics
  - Intel® UHD Graphics (units with 1 DIMM)
  - Intel® Iris® Xe Graphics (units with 2 DIMM)[4]
- IPS with direct bonding
- Anti-reflective (AR) and anti-glare (AR) screen treatments
- Supports up to 7 monitors
- Concealed Mode; Day/Night Mode

AUDIO

- Integrated tetra-array microphone
- Intel® High Definition Audio compliant
- Integrated 92db speakers (top-facing)
- Keyboard volume and mute controls

WEBCAM

- 1080p w/privacy cover & tetra-array mic
  - Infrared with Windows Hello support

KEYBOARD & INPUT

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

OPTICAL DRIVE

- Optional Blu-ray Drive (xPAK)[6]
- Optional DVD Drive (xPAK)[6]

INTERFACE

- USB-C Thunderbolt™ 4, 40Gbps 3A (w/PD)
- USB-A x2 (10Gbps 1.5A, 5Gbps 0.9A)
- Optional USB-A 0.5Gbps[7]
- Optional Fischer® USB (Core Series 5-pin)[7]
- MicroSDXC UHS-I
- HDMI 2.0
- Optional VGA[7]
- Ethernet 1Gbps RJ-45
- Optional 2nd Ethernet 1Gbps RJ-45
- Optional Serial (True) D-sub 9-pin[7]
- Audio In/Out 3.5mm
- Dual SIM (Nano-SIM 4FF x1, eSIM x1)

WIRELESS

- Optional Band 14 EM7511 4G LTE-A multi carrier w/satellite GPS
  - AT&T, FirstNet, Verizon
  - CBRS Band 48 Capable[8]
- Optional dedicated GPS (u-blox NEO-M8N)
- Optional dual high-gain antenna pass-through
- Intel® Wi-Fi 6 AX201
- Bluetooth® v5.1 (Class 1)
- Airplane mode Fn key

POWER

- Li-Ion battery:
  - HD model: 19 hours (38 hours with opt. 2nd battery)[9,10]
  - Touch FHD model: 18 hours (36 hours with opt. 2nd battery)[9,10]
  - 10.8V, 6500 mAh
- Hot swap with optional 2nd battery[10]
- Battery charging time: 3 hours (each battery)[9]
- TOUGHBOOK Smart Battery Technology
- AC Adapter: AC 100V-240V worldwide power, auto sensing/switching

SECURITY FEATURES

- Intel® Hardware Shield
- Secured-core PC
- TPM v.2.0
- NIST BIOS compliant
- Persistence® technology by Absolute embedded in BIOS[11]
- Kensington cable lock slot
- Optional locking screws for SSD and xPAK's
- Optional fingerprint reader (xPAK)[10]
- Optional insertable SmartCard CAC readers (up to 2 xPAK's)[6,10]
- Optional contactless SmartCard CAC reader (xPAK)[10]
  - 13.56MHz (ISO 14443 A/B compliant)

DIMENSIONS & WEIGHT

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

WARRANTY

- 3-year limited warranty, parts and labor

INTEGRATED OPTIONS

- 4G LTE multi carrier with satellite GPS (Band 14 EM7511)
- Dedicated GPS (u-blox NEO-M8N)
- Dual antenna pass-through
- *Rear Expansion Area:* VGA+Serial+USB-A or VGA+Serial+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: 1D/2D Barcode Reader (N6603) or Insertable SmartCard CAC Reader or DVD Drive or Blu-ray Drive or 2nd SSD Drive

xPAK's

- Rear Expansion Area
  - VGA + Serial + USB-A FZ-VCN551W
  - VGA + Serial + LAN FZ-VCN552W
  - VGA + Serial + Fischer USB FZ-VCN553W
- Front Expansion Area
  - Fingerprint Reader FZ-VFP551W
  - Contactless SmartCard FZ-VNF551W
  - Insertable SmartCard FZ-VSC551W
- TOUGHBOOK Universal Bay Expansion Area
  - Barcode Reader FZ-VBR551M
  - Insertable SmartCard FZ-VSC552W
  - Blu-ray Drive FZ-VBD551W
  - DVD Drive FZ-VDM551W
  - 512GB OPAL SSD 2nd Drive FZ-VSD55151W
  - 1TB OPAL SSD 2nd Drive FZ-VSD551T1W
- 512GB OPAL SSD Main Drive FZ-VSDR55N5W
- 1TB OPAL SSD Main Drive FZ-VSDR55NTW

Please consult your reseller or Panasonic representative to learn more about the TOUGHBOOK 55 and the wide variety of accessories and services offered.

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 1GB = 1,000,000,000 bytes. Total usable memory will be less depending upon actual system configuration.
4 Units equipped with two DIMM (memory cards) come with Intel Iris Xe graphics instead of Intel UHD graphics.
5 FHD 1000 nit non-touch model is available but requires special order. Please contact a Panasonic representative for details.
6 Barcode Reader, Insertable SmartCard CAC Reader, DVD Drive, Blu-ray Drive and 2nd SSD Drive in TOUGHBOOK Universal Bay area are mutually exclusive.
7 VGA+Serial+USB-A or VGA+Serial+Fischer USB or VGA+Serial+LAN in Rear Expansion Area are mutually exclusive.
8 The module firmware and the device antenna system have obtained technical approval by commercial carriers in the US. It is customer's responsibility to assure that the module firmware and the device antenna system are compatible with the customer's Private LTE network using Band 48.
9 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.
10 2nd Battery or Fingerprint Reader or Contactless SmartCard CAC or Insertable SmartCard CAC in Front Expansion area are mutually exclusive.
11 Requires software and activation to enable theft protection.

intel. CORE vPRO i5

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SPEC SHEET

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