Panasonic CONNECT

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 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 and 92db speakers.

MIL-STD-810H

IP53

3-FOOT DROP RATING

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SPEC SHEET

TOUGHBOOK 55 Mk2

TOUGHBOOK 55

SOFTWARE
- Windows® 10 or 11 Pro 64-bit[1]
- Panasonic Utilities and Recovery Partition
- Enterprise ready driver packages including CAB files and one-click driver bundles
- CORE Asset Management

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

CPU
- Intel® Core™ i5-1145G7 processor
  – Up to 4.4GHz with Turbo Boost, 8MB cache
- Intel® Core™ i7-1185G7 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)[4,5]
- Main SSD: 512GB, 1TB or 2TB quick-release OPAL NVMe with heater[4]
- Optional 2nd SSD: 512GB or 1TB quick-release OPAL SATA with heater[4]

DISPLAY & GRAPHICS
- Display
  – 14.0" HD 1366 x 768
  – 14.0" FHD 1920 x 1080 capacitive touch (1000 nit)[6]
- IPS with direct bonding
- Anti-reflective (AR) and anti-glare (AR) screen treatments on Touch model
- Graphics
  – Intel® UHD Graphics (units with 1 DIMM)
  – Intel® Iris® Xe Graphics (units with 2 DIMM)[5]
- Supports up to 4 displays
- 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
- 2MP (1080p) w/privacy cover & tetra-array mic
  – Infrared with Windows Hello support

KEYBOARD & INPUT
- Touch model: Stylus pen, stylus holder, tether and cleaning cloth
- Touch model: 4 modes (glove, touch, pen, pen/touch)
- Backlit keyboard icons (Caps lock, Num Lock, Scroll Lock, Storage Drive, SD Card)
- User-removable 82-key emissive keyboard[3]
  – 4 programmable keys (A1-A4)
  – Color-selectable backlit with 4 adjustable levels
- Electrostatic touchpad with multi touch

OPTICAL DRIVE
- Optional Blu-ray Drive (xPAK)[7]
- Optional DVD Drive (xPAK)[7]

INTERFACE
- Opt. USB-C Thunderbolt™ 4, 40Gbps 3A (w/PD)[8]
- USB-A x2 (10Gbps 1.5A, 5Gbps 0.9A)
- Optional USB-A 5Gbps[9]
- Optional Fischer® USB (Core Series 5-pin)[9]
- MicroSDXC UHS-I
- HDMI 4K
- Optional VGA[7]
- Ethernet 1Gbps RJ-45
- Optional 2nd Ethernet 1Gbps RJ-45[9]
- Optional Serial (True) D-sub 9-pin[9]
- Audio In/Out 3.5mm
- Dual SIM (Nano-SIM 4FF x1, eSIM x1)

WIRELESS
- Optional 4G EM7511 (up to 600 Mbps)
  – 4G (LTE, LTE-A)
  – Multi carrier (AT&T, FirstNet, Verizon)
  – Satellite GPS & CBRS Band 48 Capable[10]
- Optional dedicated GPS (u-blox NEO-M8J)
- Optional dual antenna pass-through
- Intel® Wi-Fi 6 AX201 (up to 2.4 Gbps)
- Bluetooth® v5.1 (Class 1)
- Airplane mode Fn key

POWER
- Li-Ion battery:
  – HD model: 19 hours (38 hours with opt. 2nd battery)[11,12]
  – Touch FHD model: 18 hours (36 hours with opt. 2nd battery)[11,12]
  – 10.8V, 6500mAh typical (6300mAh min)
- Hot swap with optional 2nd battery[12]
- Battery charging time: 3 hours (each battery)[11]
- TOUGHBOOK Smart Battery Technology
- AC Adapter: AC 100V-240V worldwide power, auto sensing/switching

SECURITY FEATURES
- Secured-core PC
- TPM v.2.0
- NIST BIOS compliant
- Persistence® technology by Absolute in BIOS[13]
- Kensington cable lock slot
- Encrypted OPAL SSD's
- Optional locking screws for SSD and xPAK's
- Optional fingerprint reader xPAK[12]
  – Secured-core PC (363 DPI)
  – Active Directory (385 DPI)
- Optional insertable Smart Card reader xPAK's[7,12]
- Optional contactless Smart Card Reader xPAK[12]
  – 13.56MHz (ISO 14443 A/B, ISO 18092)

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

WARRANTY
- 3-year limited warranty, parts and labor

INTEGRATED OPTIONS
- 4G EM7511 modem
- Dedicated GPS (u-blox NEO-M8J)
- Dual antenna pass-through
- Main SSD (OPAL)
  – 512GB FZ-VSDR55N5W
  – 1TB FZ-VSDR55NTW
  – 2TB FZ-VSDR55NBW
- Memory Cards
  – 16GB DDR4 ....FZ-BAZ2016
  – 32GB DDR4 ....FZ-BAZ2032
- Backlit Emissive Keyboard FZ-VKB55107U
- Rear Expansion Area xPAK's
  – VGA + Serial + USB-A FZ-VCN551W
  – VGA + Serial + LAN FZ-VCN552W
  – VGA + Serial + Fischer USB FZ-VCN553W
- Right Expansion Area
  – Fingerprint (MSFT SC-PC) xPAK FZ-VFP551W
  – Fingerprint (Active Dir) xPAK...........FZ-VFP552M
  – Contactless Smart Card xPAK FZ-VNF551W
  – Insertable Smart Card xPAK FZ-VSC551W
  – 2nd Battery FZ-VZSU1HU
- Left Expansion Area xPAK's
  – Barcode Reader (N6603) FZ-VBR551M
  – Blu-ray Drive FZ-VBD551W
  – DVD Drive FZ-VDM551W
  – Insertable Smart Card FZ-VSC552W
  – 512GB 2nd SSD OPAL FZ-VSD55151W
  – 1TB 2nd SSD OPAL FZ-VSD551T1W

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

1. Windows 10 (11 DG) SKU's include a free Windows 11 upgrade.
2. 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 IP.
3. Keyboard is user-replaceable, but once removed, the old keyboard must be discarded.
4. 1GB = 1,000,000,000 bytes. Total usable memory will be less depending upon actual system configuration.
5. Units equipped with two DIMM (memory cards) come with Intel Iris Xe graphics instead of Intel UHD graphics.
6. FHD 1000 nit non-touch model is available but requires special order. Please contact a Panasonic representative for details.
7. Barcode Reader, Insertable Smart Card CAC Reader, DVD Drive, Blu-ray Drive and 2nd SSD Drive in TOUGHBOOK Universal Bay area are mutually exclusive.
8. USC-C port is optional on Windows 10 (11 DG) and Windows 11 models.
9. VGA+Serial+USB-A or VGA+Serial+Fischer USB or VGA+Serial+LAN in Rear Expansion Area are mutually exclusive.
10. 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.
11. 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.
12. 2nd Battery or Fingerprint Reader or Contactless Smart Card Reader or Insertable Smart Card Reader in Front Expansion area are mutually exclusive.
13. Requires software and activation to enable theft protection.