Panasonic CONNECT

TOUGHBOOK®



TOUGHBOOK 56

- The world's most modular rugged PC with 6 user-replaceable areas and 5,760 combinations[1,2]
- First rugged PC available with a powerful 8GB dGPU for enhanced graphics and AI performance
- Up to 3 Ethernet ports with speeds up to 10Gbps (industry firsts)
- Optional 5G modem supports Sub6, C-band, and speeds up to 3.5Gbps
- Up to 24 hours of battery life[3]
- Over a decade of vehicle dock compatibility[1]

Innovative Modular Design and All-Day Battery Life

The Panasonic TOUGHBOOK® 56 continues its tradition of breaking new ground offering unrivaled flexibility in even the most demanding and unpredictable environments with six modular areas[1], including its innovative modular expansion packs (xPAK's) which include optical drives, authentication readers, barcode readers, and IO ports including new 2.5 Gbps and 10 Gbps options – a rugged industry first. Over a decade of backwards compatibility of docks protects customers' investments while saving time and resources. Equipped with a powerful Intel Series 2 CPU that makes AI tasks a breeze, the TOUGHBOOK 56 is also the first rugged PC with a 8GB dGPU option which can help further boost graphics and AI tasks. It also has faster DDR5 memory, louder speakers, up to 24 hours of battery life (MobileMark 30) and faster seamless 5G modem option that also supports more wireless carriers. Its new 16:10 aspect ratio is designed for mission critical workers by fitting more rows of data without the need for scrolling.



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Software

- Windows® 11 Pro, Red Hat Enterprise Linux 10.1
- Panasonic Utilities and Recovery Partition
- Waves MaxxAudio®
- COM Splitter Software
- Enterprise ready driver packages including CAB files and one-click driver bundles

Rugged Testing & Durability

- MIL-STD-810H: 3' drop, shock, bench handling, vibration, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, solar radiation, contamination by fluids, fungus, humidity)[4]
- IP53[4]
- TAA-compliant[5]
- Magnesium alloy chassis with handle
- Spill-resistant keyboard
- User-removable xPAK's, RAM, battery and caged SSD (w/heater)[1]
- Raised bezel for LCD impact protection
- Replaceable screen protector
- Corning® Gorilla® Glass 3

CPU

- Intel® Core™ Ultra 5 vPro™ 235H w/AI Boost
  - Up to 5.0GHz, 18MB cache, 14 cores
- Intel® Core™ Ultra 7 vPro™ 265H w/AI Boost
  - Up to 5.3GHz, 24MB cache, 16 cores

Storage & Memory

- User-upgradeable RAM (up to 2 DIMM's) 16-64GB total (DDR5-5600MHz)[1,6]
- Main SSD: 512GB, 1TB or 2TB quick-release NVMe with heater; encrypted (OPAL)[6]
- Optional 2nd SSD: 512GB, 1TB or 2TB quick-release NVMe with heater; encrypted (OPAL)[6]

Display & Graphics

- Display
  - 14.0" 16:10 WUXGA 1920 x 1200 (350 nit)
  - Opt. 14.0" 16:10 WUXGA 1920 x 1200 capacitive gloved touch (1000 nit)
- IPS with direct bonding
- Anti-glare (Anti-reflective on touch model)
- Graphics
  - Intel® Graphics (units with 1 DIMM)
  - Opt. Intel® Arc 140T GPU (units with 2 DIMM)
  - Opt. AMD™ Radeon PRO W7500M (8GB dGPU)[1]
- Supports up to 4 displays (including PC display)
- Concealed Mode; Night Mode

Audio

- Integrated dual-array mic w/AI noise reduction
- Waves MaxxAudio®
- Integrated 98db speakers (front-facing)
- Keyboard volume and mute controls

Webcam

- 5MP infrared with Windows Hello support
- Includes privacy cover & camera on LED

Keyboard & Input

- Touch model:
  - Stylus holder w/opt. stylus pen & tether
  - 5 modes (auto, glove, touch, pen, pen/touch)
- Backlit keyboard icons (Power, Battery, Caps Lock, Num Lock, Scroll Lock, Storage Drive)
- 82-key emissive keyboard with Copilot Key
  - 4 programmable keys (A1-A4)
  - Color-selectable backlit with 4 adjustable levels
- Electrostatic precision touchpad with multi touch

Optical Drive

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

Interface

- USB-C Thunderbolt™ 4 x2 (40Gbps 3A, PD, DP)
- Optional USB-C (5Gbps); Optional USB-A (5Gbps)[8]
- USB-A (5Gbps 0.9A)
- Optional MicroSDXC UHS-I[8]
- HDMI 4K
- Optional VGA[8]
- Ethernet RJ-45 (1Gbps)
- Optional 2nd Ethernet RJ-45 (1 or 2.5Gbps)[8]
- Optional 3rd Ethernet RJ-45 (10Gbps)[7]
- Optional Serial (True) D-sub 9-pin[8]
- Audio In/Out 3.5mm
- Dual SIM (Nano-SIM 4FF x1, eSIM x1)

Wireless

- Optional 4G EM7595 (up to 0.5Gbps)
  - 4G (LTE, LTE-A)
  - Multi carrier (AT&T, FirstNet, Verizon)
  - Satellite GPS & CBRS B48, B106 Capable[9]
- Optional 5G EM9291 (up to 3.5Gbps)
  - 4G (LTE, LTE-A), 5G (Sub6, C-band)
  - Multi carrier (AT&T, First Net, T-Mobile, Verizon)
  - Satellite GPS & CBRS B48, n48 Capable[9]
- Optional dedicated GPS (u-blox NEO-M9N)[1]
- Opt. dual antenna pass-through (BIOS selectable)[1]
- Intel® Wi-Fi 7 BE201 (up to 5.8Gbps)
- Bluetooth® v5.4 (Class 1)
- Airplane mode Fn key
- COM Splitter Software

Power

- Li-Ion battery:
  - 12 hours (24 w/opt. 2nd battery)[3,10]
  - 10.8V, 6500mAh typical (each battery)
- Battery charging time: 3 hours (each battery)[3]
- Hot swap with optional 2nd battery[10]
- 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 in BIOS[11]
- Local Platform Erase
- Kensington cable lock slot
- Encrypted SSD's (OPAL)
- Optional locking screws for SSD and xPAK's
- Optional fingerprint readers[10]
  - Secured-core PC (363 DPI)
  - Active Directory (385 DPI)
- Optional insertable Smart Card Readers[7,10]
- Optional contactless Smart Card Readers[10]
  - 13.56MHz (ISO 14443 A/B, 15693, 18092)

Dimensions & Weight[1,12]

- 10.7"(L) x 13.6"(W) x 1.4"(H)
- 4.66 lbs. (4.99 lbs. Touch model)

Warranty

- 3-year limited warranty, parts and labor

Integrated Options

- 5G EM9291 or EM7595 modem
- Dedicated GPS (u-blox NEO-M9N)[1]
- Dual antenna pass-through (BIOS selectable)[1]
- Embedded Security Area (Contactless Smart Card or Fingerprint Active Dir)
- Main SSD OPAL
  - 512GB.....FZ-VSD560T1U
  - 1TB.....FZ-VSD561T1U
  - 2TB.....FZ-VSD562T1U
- Memory Cards[1]
  - 16GB DDR5.....FZ-BAZ2416
  - 32GB DDR5.....FZ-BAZ2432
- Rear Expansion Area xPAK's[1]
  - VGA + Serial + USB-A.....FZ-VCN551W
  - VGA + Serial + LAN (1Gbps).....FZ-VCN552W
  - USB-C + USB-A.....FZ-VCN554W
  - MicroSD + LAN (2.5Gbps).....FZ-VCN561U
- Right Expansion Area
  - Fingerprint (MSFT SC-PC) xPAK.....FZ-VFP551W
  - Fingerprint (Active Dir) xPAK.....FZ-VFP552M
  - Contactless Smart Card xPAK.....FZ-VNF552M
  - Insertable Smart Card xPAK.....FZ-VSC561U
  - 2nd Battery.....FZ-VZSU1HU
- Left Expansion Area xPAK's[1]
  - Barcode Reader (N6703HD).....FZ-VBR552M
  - Blu-ray Drive.....FZ-VBD561M
  - DVD Drive.....FZ-VDM561M
  - Insertable Smart Card.....FZ-VSC552W
  - LAN (10Gbps).....FZ-VLN561U
  - 2nd SSD: OPAL
    - 512GB.....FZ-V2S560T1U
    - 1TB.....FZ-V2S561T1U
    - 2TB.....FZ-V2S562T1U

Please consult your reseller or Panasonic representative to learn more about the TOUGHBOOK 56 and the wide variety of accessories and services offered.

1 dGPU model adds 0.6" bottom bump out, 1.0 lbs, is not compatible with docks, and its RAM, Left & Rear Expansion Areas are not user-replaceable. In addition, is not available with antenna pass-throughs, docking connector or dedicated GPS.

2 Excluding Fully Rugged

3 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 test results from MobileMark 30 at 250 nit, Wi-Fi off and using the Professional scenario.

4 Base model 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.

5 TAA-compliant products are available upon request.

6 1GB = 1,000,000,000 bytes. Total usable memory will be less depending upon actual system configuration

7 Barcode Reader, Insertable Smart Card Reader, DVD Drive, Blu-ray Drive, LAN (10Gbps) and 2nd SSD Drive in Left Expansion Area are mutually exclusive.

8 VGA+Serial+USB-A, VGA+Serial+LAN (1Gbps), USB-C+USB-A and MicroSD+LAN (2.5Gbps) in Rear Expansion Area are mutually exclusive.

9 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 Cellular network.

10 2nd Battery, Fingerprint Reader xPAK, Contactless Smart Card Reader xPAK, and Insertable Smart Card Reader xPAK in Right Expansion Area are mutually exclusive.

11 Requires software and activation to enable theft protection.

12 Weight measurements are for base model - without Wi-Fi, Bluetooth and webcam.

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