Panasonic CONNECT

TOUGHBOOK



TOUGHBOOK 40

- Innovative modular design and user-removable xPAK's offer unparalleled customization
- First TOUGHBOOK PC featuring an Intel processor with dedicated NPU to optimize AI performance
- State-of-the-art design optimizes thermals for effortless performance
- Class-leading 95dB speakers, 5MP infrared webcam with privacy cover and tetra-array microphones
- Fully rugged all-weather MIL-STD-810H & IP66 design built with magnesium alloy
- Fastest cellular in the industry —up to 2Gbps 4G modem or 4.1Gbps 5G modem adds Sub6, and C-band

TAKING RUGGED COMPUTING TO THE NEXT LEVEL

The Panasonic TOUGHBOOK 40 offers unrivaled flexibility in even the most demanding and unpredictable environments with its class-leading eight modular areas including its innovative modular expansion packs (xPAK's). Optical drives, authentication readers, IO ports and even the Barcode Reader xPAK are all user-upgradeable. Its state-of-the-art design optimizes thermals for maximum performance and its latest technology will ensure the TOUGHBOOK 40 will withstand the test of time. It is the first TOUGHBOOK PC featuring an Intel processor with dedicated NPU to optimize AI performance. It also has an optional dedicated GPU, up to 64GB of RAM, up to 4TB of storage, all-day battery life, four microphones, color-selectable backlit keyboard, 95dB speakers, and choice of two cellular modems. The 4G modem provides up to 2Gbps and the 5G modem adds support of 5G Sub6, and C-band with speeds up to 4.1Gbps. It also has the ability to seamlessly connect to the best available network without any disruption or loss of connectivity.

MIL-STD-810H

MIL-STD-461G

IP66

C1D2 HAZ LOC

6-FOOT DROP RATING

TOUGHBOOK 40 Mk2

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SOFTWARE

- Windows® 11 Pro
- Panasonic Utilities and Recovery Partition
- Waves MaxxAudio®
- Enterprise ready driver packages including CAB files and one-click driver bundles

CERTIFICATIONS & DURABILITY

- MIL-STD-810H: 6' drop, shock, bench handling, vibration, rain, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, solar radiation, contamination by fluids, humidity, salt fog, explosive atmosphere[1]
- MIL-STD-461G[1]
- IP66[1]
- Optional C1D2 (class 1 div 2) groups ABCD
- Magnesium alloy chassis with handle
- User-removable xPAK's, RAM, keyboard, battery and caged SSD (w/heater)[2]
- Raised bezel for LCD impact protection
- Reinforced locking port covers
- Replaceable screen protector

CPU

- Intel® Core™ Ultra 5 vPro® processor 135H (14-core)
  - Up to 4.6Ghz, 18MB cache, 1.4Ghz AI Boost NPU
- Intel® Core™ Ultra 7 vPro® processor 165H (16-core)
  - Up to 5.0Ghz, 24MB cache, 1.4Ghz AI Boost NPU

STORAGE & MEMORY

- User-upgradeable RAM (up to 2 DIMM's) 16-64GB total (DDR5-5600MHz)[3,4]
- Main SSD: 512GB, 1TB or 2TB quick-release OPAL NVMe with heater; opt. FIPS 140-2 encrypted[3]
- Optional 2nd SSD: 512GB , 1TB or 2TB quick-release OPAL NMVe with heater[3]

DISPLAY & GRAPHICS

- Display
  - 14.0" FHD 1920 x 1080 capacitive gloved touch
  - 1-1200 nit
- IPS with direct bonding
- Anti-reflective (AR) screen treatment
- Graphics
  - Intel® Graphics (units with 1 DIMM)
  - Intel® Arc™ Graphics (units with 2 DIMM)[3]
  - Optional AMD Radeon PRO W6300M
- Supports up to 4 displays
- Concealed Mode; Night Mode

AUDIO

- Integrated tetra-array mic w/AI noise reduction
- Intel® High Definition Audio compliant
- Integrated 95dB speakers (top-facing)
- Keyboard volume and mute controls

WEBCAM

- 5MP w/privacy cover & tetra-array mic
  - Infrared with Windows Hello support

KEYBOARD & INPUT

- Stylus pen, stylus holder and cleaning cloth
- 6 modes (auto, rain, glove, touch, pen, pen/touch)
- Backlit power button & keyboard icons (Caps lock, Num Lock, Scroll Lock, Storage Drive, SD Card)
- User-removable 82-key keyboard[2]
  - 8 programmable buttons/keys (P1-P4, A1-A4)
  - Color-selectable backlit with 4 adjustable levels (emissive or rubber)
- Gen2 resistive touchpad with multi touch

OPTICAL DRIVE

- Optional Blu-ray Drive (xPAK)[5]
- Optional DVD Drive (xPAK)[5]

INTERFACE

- USB-C Thunderbolt™ 4, 40Gbps 3A (w/PD)
- Optional USB-C 5Gbps 0.9A[6]
- USB-A x2 (10Gbps 0.9A, 5Gbps 0.9A)
- Optional USB-A x2 5Gbps 0.9A[6]
- MicroSDXC UHS-I
- HDMI 4K (optional 2nd HDMI 4K)[6]
- Optional VGA[6]
- Ethernet 1Gbps RJ-45
- Optional 2nd Ethernet 1Gbps RJ-45[6]
- Optional Fischer LAN with metal cap[6]
- Optional Serial (True) D-sub 9-pin[6]
- Audio In/Out 3.5mm
- Dual SIM (Nano-SIM 4FF x1, eSIM x1)

WIRELESS

- Optional 4G EM7690 (up to 2Gbps)
  - 4G (LTE, LTE-A)
  - Multi carrier (First Net)
  - Satellite GPS & CBRS Band 48 Capable[7]
- Optional 5G EM9190 (up to 4.1Gbps)
  - 4G (LTE, LTE-A), 5G (Sub6, C-band)
  - Multi carrier (First Net)
  - Satellite GPS & CBRS Band 48 Capable[7]
- Optional dedicated GPS (u-blox NEO-M9N)
- Opt. quad antenna pass-through (BIOS selectable)
- Intel® Wi-Fi 7 BE200 (up to 5.8Gbps)
- Bluetooth® v5.3 (Class 1)
- Airplane mode Fn key

POWER

- Li-Ion battery:
  - 12 hours (24 hours w/opt. 2nd battery) [8,9]
  - 10.8V, 6500mAh typical (6300mAh min)
- Hot swap with optional 2nd battery[9]
- Battery charging time: 3 hours (each battery)[8]
- 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[10]
- Local Platform Erase
- Kensington cable lock slot
- Encrypted SSD's (OPAL & opt. FIPS 140-2)
- Optional locking screws for SSD and xPAK's
- Optional fingerprint reader xPAK (385 DPI)[11]
- Optional insertable Smart Card reader xPAK's[5,9]
- Optional contactless Smart Card reader xPAK[11]
  - 13.56MHz (ISO 14443 A/B, 15693, 18092)

DIMENSIONS & WEIGHT

- 11.9"(L) x 13.9"(W) x 2.1"(H)
- 7.4 lbs.

WARRANTY

- 3-year limited warranty, parts and labor

INTEGRATED OPTIONS

- 5G EM9190 or 4G EM7690 modem
- Dedicated GPS (u-blox NEO-M9N)
- Quad antenna pass-through
  - dGPU (AMD Radeon Pro W6300M)
- Main SSD: OPAL / FIPS 140-2 Encrypted
  - 512GB ..... FZ-VSD400T2M / FZ-VSF400T1M
  - 1TB ..... FZ-VSD401T2M / FZ-VSF401T1M
  - 2TB ..... FZ-VSD402T2M / FZ-VSF402T1M
- Memory Cards
  - 16GB DDR5 ..... FZ-BAZ2316
  - 32GB DDR5 ..... FZ-BAZ2332
- Keyboard
  - Backlit Emissive FZ-VKB55107U
  - Backlit Rubber FZ-VKB40207W
- Right Expansion Area
  - Insertable Smart Card xPAK FZ-VSC401U
  - 2nd Battery FZ-VZSU1XU
- Left Expansion Area xPAK's
  - Barcode Reader (N6703HD) FZ-VBR402M
  - Blu-ray Drive FZ-VBD401AM
  - DVD Drive FZ-VDM401AM
  - Insertable Smart Card FZ-VSC402U
  - 2nd SSD: OPAL / FIPS 140-2 Encrypted
    - 512GB ..... FZ-V2S400T2M /FZ-V2F400T1M
    - 1TB ..... FZ-V2S401T2M /FZ-V2F401T1M
    - 2TB ..... FZ-V2S402T2M /FZ-V2F402T1M
- Rear Expansion Area xPAK's
  - VGA + Serial (true) + LAN FZ-VCN401U
  - USB-A + HDMI + Serial (true) FZ-VCN402U
  - USB-A (x2) + HDMI FZ-VCN403U
  - Fischer LAN with Metal Cap FZ-VCN404W
  - USB-C + USB-A + HDMI FZ-VCN406U
- Palm Rest Expansion Area xPAK's
  - Contactless Smart Card FZ-VNF402M
  - Fingerprint (Active Dir) FZ-VFP402W

Please consult your reseller or Panasonic representative to learn more about the TOUGHBOOK 40 and the wide variety of accessories and services offered.

1 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.

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 Arc Graphics instead of Intel Graphics.

5 Barcode Reader, Insertable Smart Card Reader, DVD Drive, Blu-ray Drive and 2nd SSD Drive in Left Expansion Area are mutually exclusive.

6 VGA+Serial+LAN or USB-A+HDMI+Serial or USB-A(x2)+HDMI or Fischer LAN or USB-C+USB-A+HDMI in Rear Expansion Area are mutually exclusive.

7 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.

8 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 25 at 250 nit, connected to Wi-Fi and using the Office Productivity and Creativity scenarios. MobileMark 2014 battery life results is 18 hours (36 with optional long life batteries) tested at 150 nit, connected to Wi-Fi and using just the Office Productivity scenario.

9 2nd Battery or Insertable Smart Card in Right Expansion Area are mutually exclusive.

10 Requires software and activation to enable theft protection.

11 Fingerprint Reader or Contactless Smart Card Reader in Palm Rest Expansion Area are mutually exclusive.

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