



## TOUGHBOOK 40

- The world's most modular rugged PC with 8 user-replaceable areas and 10,000+ combinations
- First rugged PC available with a powerful 8GB dGPU for enhanced graphics and AI performance
- Thermally optimized design for consistent, high performance
- Optional 5G modem supports Sub6, C-band, and speeds up to 3.5Gbps
- Up to 24 hours of battery life<sup>8</sup>
- Fully rugged, magnesium-alloy, all-weather design

### Taking Rugged Computing to the Next Level

The Panasonic TOUGHBOOK® 40 is built for the toughest jobs—delivering unmatched flexibility in unpredictable environments. With eight modular areas, including its battery, memory, storage, keyboard, and xPAK expansion options, it adapts to any workflow with ease. A thermally optimized design ensures consistent performance even in demanding environments. It is powered by an Intel® Series 2 processor with Intel® AI Boost and is available with the industry's first 8GB dGPU for demanding graphics and AI tasks. Featuring a 1200-nit outdoor-readable touchscreen, all-day battery life, and seamless 5G connectivity, the TOUGHBOOK 40 keeps workers productive—anywhere the job takes them.



## TOUGHBOOK 40

### Software

- Windows® 11 Pro, Red Hat Enterprise Linux 10.1<sup>4</sup>
- 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: 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<sup>1</sup>
- MIL-STD-461G
- IP66<sup>1</sup>
- Optional C1D2 (class 1 div 2) groups ABCD
- TAA-compliant<sup>12</sup>
- Magnesium alloy chassis with handle
- User-removable xPAK's, RAM, keyboard, battery and caged SSD (w/heater)<sup>2</sup>
- Raised bezel for LCD impact protection
- Reinforced locking port covers
- Replaceable screen protector
- Corning® Gorilla® Glass 3

### CPU

- Intel® Core™ Ultra 5 vPro® 235H w/Intel® AI Boost – Up to 5.0GHz, 18MB cache, 14 cores
- Intel® Core™ Ultra 7 vPro® 265H w/Intel® 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)<sup>3</sup>
- Main SSD: 512GB, 1TB or 2TB quick-release NVMe with heater; encrypted (OPAL or opt. FIPS 140-2)<sup>3</sup>
- Optional 2nd SSD: 512GB, 1TB or 2TB quick-release NVMe with heater; encrypted (OPAL or opt. FIPS 140-2)<sup>3,5</sup>

### Display & Graphics

- Display
  - 14.0" 16:9 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)
  - Opt. Intel® Arc™ 140T GPU (units with 2 DIMM)
  - Opt. AMD™ Radeon PRO W7500M (8GB dGPU)<sup>13</sup>
- Supports up to 4 displays (including PC display)
- Concealed Mode; Night Mode

### Audio

- Integrated tetra-array mic w/AI noise reduction
- Waves MaxxAudio®
- Integrated 95db speakers (top-facing)
- Keyboard volume and mute controls

### Webcam

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

### Keyboard & Input

- Stylus holder, stylus pen and tether
- 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 w/Copilot Key<sup>2</sup>
  - 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)<sup>5</sup>
- Optional DVD Drive (xPAK)<sup>5</sup>

### Interface

- USB-C Thunderbolt™ 4 (40Gbps, 3A, PD, DP)
- Optional USB-C (5Gbps 0.9A)<sup>6</sup>
- USB-A x2 (10Gbps 0.9A, 5Gbps 0.9A)
- Optional USB-A x2 (5Gbps 0.9A)<sup>6</sup>
- MicroSDXC UHS-I
- HDMI 4K (optional 2nd HDMI 4K)<sup>6</sup>
- Optional VGA<sup>6</sup>
- Ethernet RJ-45 (1Gbps)
- Optional 2nd Ethernet RJ-45 (1Gbps)<sup>6</sup>
- Optional Fischer LAN with soft cap<sup>6</sup>
- Optional Serial (True) D-sub 9-pin<sup>6</sup>
- 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 (AT&T, FirstNet, T-Mobile, Verizon)
  - Satellite GPS & CBRS b48 Capable<sup>7</sup>
- Optional 5G EM9291 (up to 3.5Gbps)
  - 4G (LTE, LTE-A), 5G (Sub6, C-band)
  - Multi carrier (AT&T, FirstNet, T-Mobile, Verizon)
  - Satellite GPS & CBRS n48 Capable<sup>7</sup>
- Optional dedicated GPS (u-blox NEO-M9N)
- Opt. quad antenna pass-through (BIOS selectable)<sup>13</sup>
- 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 hours w/opt. 2nd battery)<sup>8, 9, 13</sup>
  - 10.8V, 6500mAh typical (6300mAh min)
- Hot swap with optional 2nd battery<sup>9</sup>
- Battery charging time: 3 hours (each battery)<sup>8</sup>
- 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<sup>10</sup>
- Local Platform Erase
- Kensington cable lock slot
- Encrypted SSD's (OPAL or opt. FIPS 140-2)
- Optional locking screws for SSD and xPAK's
- Optional fingerprint reader xPAK's<sup>11</sup>
  - Secured-core PC (363 DPI)
  - Active Directory (385 DPI)
- Optional insertable Smart Card reader xPAK's<sup>5,9</sup>
- Optional contactless Smart Card reader xPAK<sup>11</sup>
  - 13.56MHz (ISO 14443 A/B, 15693, 18092)

### Dimensions & Weight

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

### Warranty

- 3-year limited warranty, parts and labor

### Integrated Options

- 5G EM9192 or 4G EM7690 modem
- Dedicated GPS (u-blox NEO-M9N)
- Quad antenna pass-through (BIOS selectable)<sup>13</sup>
- Main SSD: OPAL / FIPS 140-2 Encrypted
  - 512GB .....FZ-VSD400T3U / FZ-VSF400T1M
  - 1TB .....FZ-VSD401T3U / FZ-VSF401T1M
  - 2TB .....FZ-VSD402T3U / FZ-VSF402T1M
- Memory Cards
  - 16GB DDR5 .....FZ-BAZ2516
  - 32GB DDR5 .....FZ-BAZ2532
- Keyboard
  - Backlit Emissive .....FZ-VKB40307U
  - Backlit Rubber .....FZ-VKB40407W
- Right Expansion Area<sup>13</sup>
  - 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-V2S400T3U /FZ-V2F400T1M
    - 1TB .....FZ-V2S401T3U /FZ-V2F401T1M
    - 2TB .....FZ-V2S402T3U /FZ-V2F402T1M
- Rear Expansion Area xPAK's
  - VGA + Serial (true) + LAN .....FZ-VCN401U
  - USB-A + HDMI + Serial (true) .....FZ-VCN402AU
  - USB-A (x2) + HDMI .....FZ-VCN403AU
  - Fischer LAN with Soft Cap .....FZ-VCN404W
  - USB-C + USB-A + HDMI .....FZ-VCN406AU
- Palm Rest Expansion Area xPAK's
  - Contactless Smart Card .....FZ-VNF402BM
  - Fingerprint (Active Dir) .....FZ-VFP402BW
  - Fingerprint (MSFT SC-PC).....FZ-VFP401BU

### 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 Part/SKU numbers with Red Hat Enterprise Linux have the webcam physically removed.
- 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, USB-A+HDMI+Serial, USB-A(x2)+HDMI, Fischer LAN, 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 Cellular network.
- 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 30 at 250 nit, Wi-Fi off and using the Professional 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.
- 12 TAA-compliant products are available upon request.
- 13 dGPU model main battery is on the right side (no 2nd battery option) and the front left area has an embedded Insertable Smart Card Reader (non-removable). In addition, it is not available with antenna pass-through.

Panasonic is constantly enhancing product specifications and accessories. Specifications subject to change without notice.

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