Panasonic CONNECT

TOUGHBOOK®

TOUGHBOOK 34

- The world's most modular rugged tablet with 4 user-replaceable areas
- Largest display area in its class — featuring a 3:2 aspect ratio for optimal productivity
- Optional 5G modem supports Sub6, C-band and speeds up to 3.5Gbps
- Up to 18 hours of battery life[7]
- Over 9 years of vehicle dock compatibility[12]

First fully rugged tablet with an Intel Core Ultra Series 3 CPU

The 12.4" fully rugged 2-in-1 tablet features a modular design that allows users to adapt to current and evolving job needs. It comes with Intel's 3rd-generation AI-enabled processor, a 5MP infrared webcam, 13MP rear camera, and optional Intel® Arc™ graphics (Ultra X7 only). It offers backwards compatibility with many vehicle docks and other peripheral devices, and up to 18 hours of battery life with the optional second battery. It provides multiple interface ports, including USB-C Thunderbolt™ 4, USB-A, ethernet, optional serial, and optional HDMI. The optional 5G EM9291 modem delivers the latest in wireless connectivity, including 4G, 5G and support for Private Cellular (CBRS B48, B106, n48) including Anterix solutions.

COMPLIANT MIL-STD-810H

COMPLIANT MIL-STD-461G

COMPLIANT IP66

COMPLIANT C1D2 HAZ LOC

6-FOOT DROP RATING

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Software
- Windows® 11 Pro Red Hat Enterprise Linux 10.2[13]
- 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[2]
- MIL-STD-461G
- IP66[1]
- Optional C1D2 (class 1 div 2) groups ABCD
- TAA-compliant[9]
- Magnesium alloy chassis encased with ABS and elastomer edges
- Handle/kickstand (on opt. keyboard)
- User-removable xPAK's, battery and caged SSD (with heater)
- Reinforced locking port covers
- Replaceable screen protector
- Corning® Gorilla® Glass 3

CPU
- Intel® Core™ Ultra 5 vPro® 335 w/ AI Boost
  – Up to 4.6GHz, 12 MB cache, 8 cores
- Intel® Core™ Ultra X7 vPro® 368H w/ AI Boost
  – Up to 5.0 GHz, 18 MB cache, 16 cores

Storage & Memory
- Factory installed 16GB, 32GB, or 64GB RAM (LPDDR5x 8533MHz)[3]
- 512GB, 1TB or 2TB quick-release NVMe with heater; OPAL encrypted[3]

Display & Graphics
- 12.4" 3:2 FHD+ 1920×1280 capacitive gloved touch + digitizer (2-1000 nit)
- IPS with direct bonding
- Anti-reflective (AR) screen treatment
- Graphics
  - Intel Graphics (Ultra 5 models)
  - Opt. Intel® Arc™ B390 GPU (Ultra X7 models)
  - Opt. Intel® Arc™ Pro B390 GPU[11] (Ult. X7 mods)
- Supports up to 4 displays (including PC display)
- Concealed Mode; Night Mode

Audio
- Integrated dual-array mic w/AI noise reduction
- Waves MaxxAudio®
- Integrated 91db speakers (front-facing)
- On-screen and button volume and mute controls

Cameras
- 5MP infrared with Windows Hello support; includes privacy cover & camera on LED
- 13MP rear camera with autofocus and camera flash LED[13]

Keyboard & Input
- IP55 2 button digitizer pen (right click & erase), stylus holder and tether
- 6 modes (auto, rain, glove, touch, pen, pen/touch)
- Tablet backlit icons (Power, Battery, Storage Drive)
- 6 programmable buttons (A1-A4, +, -)
- On-screen QWERTY keyboard
- Optional 87-key keyboards w/Copilot Key:
  - Emissive: backlit (red) w/4 levels
  - Rubber: backlit (white) w/4 levels
  - Gen1 resistive touchpad with scrolling

Interface & Expansion
- On the tablet:
  - USB-C Thunderbolt 4 x2 (40Gbps, 3A, PD, DP)
  - USB-A (5Gbps 0.9A)
  - Optional USB-A (0.5Gbps 0.9A)[4]
  - Optional HDMI 4K[6]
  - Ethernet RJ-45 (1Gbps)
  - Optional Serial (True) D-sub 9-pin[4,6]
  - Optional 2D Barcode
  - Audio In/Out 3.5mm
  - Dual SIM (Nano-SIM 4FF x1, eSIM x1)
- On the optional keyboard:
  - Docking Connector 25-pin
  - USB-A x3 (5Gbps x2, 0.5Gbps x1)
  - SDXC UHS-II
  - HDMI 4K
  - Ethernet RJ-45 (1Gbps)
  - Serial (USB) D-sub 9-pin

Wireless
- Optional 5G EM9291 (up to 3.5 Gbps)
  – 4G (LTE, LTE-A), 5G (Sub6, C-band)
  – Multi carrier (AT&T, FirstNet, T-Mobile, Verizon)
  – Satellite GPS & CBRS B48, B106, n48 Capable[5]
- Optional dedicated GPS (u-blox NEO-M9N)
- Opt. dual antenna pass-through (BIOS selectable)
- Intel® Wi-Fi 7 BE211 (up to 5.8Gbps)
- Bluetooth® v5.4 (Class 1)
- COM Splitter Software

Power
- Li-Ion Battery x1 (2nd optional)
  – 9 hours (18 hours w/opt. 2nd battery)
  – 11.6V, 3495mAh typical (each battery)
- Battery charging time: 2.5 hours (with parallel charging technology)[7]
- TOUGHBOOK Smart Battery Technology
- AC Adapter: AC 100V-240V worldwide power, auto-sensing/switching
- Hot Swap with optional 2nd battery

Security Features
- Intel® Hardware Shield
- Secured-core PC
- TPM v.2.0
- NIST BIOS compliant
- Persistence® technology by Absolute in BIOS[6]
- Local Platform Erase
- Kensington cable lock slots x2 (on tablet and optional keyboard)
- Encrypted OPAL SSD's
- Optional fingerprint reader[2]
  - Active Directory (385 DPI)
- Optional insertable Smart Card reader[2]
- Optional contactless Smart Card reader 13.56MHz (ISO 14443 A/B, 15693, 18092)[2]
- Optional TOUGHBOOKGuard

Dimensions & Weight
- 12.1" x 9.6" x 1.0" (12.3" x 11.4" x 1.8" with optional keyboard)[8]
- 2.9 lbs (5.6 lbs with optional keyboard)[10]

Warranty
- 3-year limited warranty, parts and labor

Integrated Options
- 5G EM9291 modem
- Dedicated GPS (u-blox NEO-M9N)
- Dual antenna pass-through (BIOS selectable)
- Keyboard
  - Backlit Emissive CF-VEK335ALM
  - Backlit Rubber CF-VEK336ARM
- SSD: OPAL
  - 512GB..... FZ-VSD3G0T1U
  - 1TB..... FZ-VSD3G1T1U
  - 2TB..... FZ-VSD3G2T1U
- Top Expansion Area xPAK's
  - Barcode Reader..... FZ-VBR341W
  - 2nd USB-A..... FZ-VUB341U
  - True Serial..... FZ-VSR341U[8]
  - HDMI..... FZ-VHM341U[8]
- Rear Expansion Area xPAK's
  - Insertable Smart Card..... FZ-VSC3G1U
  - Contactless Smart Card..... FZ-VNF3G1U
  - Fingerprint (Active Dir)..... FZ-VFP3G1U

Please consult your reseller or Panasonic representative to learn more about the TOUGHBOOK 34 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 Insertable Smart Card, Contactless Smart Card, and Fingerprint Readers in Rear Expansion Area are mutually exclusive.

3 1GB = 1,000,000,000 bytes. Total usable memory will be less depending upon actual system configuration.

4 Barcode, 2nd USB-A, Serial (true) and HDMI in Top Expansion Area are mutually exclusive.

5 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.

6 Requires software and activation to enable theft protection.

7 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.

8 HDMI xPAK and True Serial xPAK adds a 0.1" and 0.2" bump out that increases the height and prohibits use in convertible mode.

9 TAA-compliant products are available upon request.

10 Second battery adds 0.5 lbs.

11 Requires software update.

12 With most configurations. Contact your Panasonic representative for details.

13 Rear camera is not certified with Red Hat Enterprise Linux

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