Panasonic CONNECT

TOUGHBOOK

Keyboard
Optional

TOUGHBOOK 33

- First fully rugged product with a 3:2 screen for easier handling and better viewing of business applications
- Optional 5G EM9190 modem supports 4G and 5G Sub6 with speeds up to 4.1Gbps
- Infrared webcam and Windows Hello enables biometric user authentication
- Optional quick-release SSD includes insertable Smart Card and long life batteries
- Twin battery design enables hot-swap battery replacement for continuous use

12" TABLET EASILY CONVERTS TO A LAPTOP WITH OPTIONAL KEYBOARD.

The Panasonic TOUGHBOOK 33 offers unparalleled flexibility in even the most demanding and extreme environments and is one of the world's first fully rugged 2-in-1 PC with a 3:2 screen. Inspired by the increasing demands of mobile professionals, the TOUGHBOOK 33 delivers rugged mobility in a highly customizable package that also includes over 14 years of backward compatibility[1]. It has an optional i7-1370P processor that delivers 14 cores of computing power. A wide range of integrated options such as serial port, barcode, fingerprint, insertable, contactless Smart Card readers, choice of 4G or 5G modems, assure TOUGHBOOK 33 can be customized to meet the unique needs of a diverse customer base.

MIL-STD-810H

MIL-STD-461F

IP65

C1D2 HAZ LOC

5-FOOT DROP RATING
(Tablet only)

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TOUGHBOOK 33 Mk4

SPEC SHEET

TOUGHBOOK 33

SOFTWARE
- Windows® 11 Pro, Red Hat Enterprise Linux 9.4
- Panasonic Utilities and Recovery Partition
- COM Splitter Software
- Enterprise ready driver packages including CAB files and one-click driver bundles

CERTIFICATIONS & DURABILITY
- MIL-STD-810H: 4' drop (5' tablet only) shock, bench handling, vibration, rain, dust, sand, altitude, freeze/thaw, high/low temperature, temperature shock, solar radiation, contamination by fluids, humidity, explosive atmosphere[2]
- MIL-STD-461F[2]
- IP65[2]
- Optional C1D2 (class 1 div 2) groups ABCD
- Magnesium alloy chassis encased with ABS and elastomer edges
- Handle/kickstand (on opt. Premium Keyboard)
- SSD heater, removable SSD[3] or optional quick-release caged SSD[4,5]
- Removable battery
- Raised bezel for LCD impact protection
- Reinforced locking port covers
- Replaceable screen protector

CPU
- Intel® Core™ i5-1345U vPro® 10-core processor
  – Up to 4.7GHz with Turbo Boost, 12MB cache
- Intel® Core™ i7-1370P vPro® 14-core processor
  – Up to 5.2GHz with Turbo Boost, 24MB cache

STORAGE & MEMORY
- Factory installed 16GB or 32GB RAM (LPDDR4x-4266MHz)[6]
- 512GB, 1TB or 2TB removable OPAL NVMe SSD with heater[3,6]
- Optional quick-release SSD (comes w/Insertable Smart Card reader and long life batteries)[4,5,12]

DISPLAY & GRAPHICS
- Display
  – 12.0" 3:2 QHD 2160 x 1440
  – Capacitive gloved touch + digitizer
  – 2-1200 nit
- Direct Bonding
- Anti-reflective (AR) screen treatment
- Graphics
  – Intel® Iris® Xe Graphics
- Supports up to 4 displays
- Concealed Mode; Night Mode

AUDIO
- Integrated dual-array mic w/AI noise reduction
- Integrated 91dB speakers (front-facing)
- On-screen and button volume and mute controls

CAMERAS
- 2MP (1080p) webcam w/privacy cover & dual array mic
  – Infrared with Windows Hello support
- 8MP rear camera with autofocus and triple LED flash

KEYBOARD & INPUT
- IP55 2 button digitizer pen (right click & erase), stylus holder and tether
- 5 modes (rain, glove, touch, pen, pen/touch)
- 7 tablet buttons (5 programmable including A1/A2 buttons)
- On-screen QWERTY keyboard
- Optional 87-key emissive keyboards (Lite, Premium) and rubber keyboard (Premium):[7]
  – Backlit (emissive: red, rubber: white) with 4 adjustable levels
  – Gen1 resistive touchpad with scrolling

INTERFACE & EXPANSION
- On the tablet:
  – USB-C Thunderbolt™ 4, 40Gbps 3A (PD, DP)
  – USB-A 5Gbps 1.5A
  – Optional USB-A 0.5Gbps[8]
  – HDMI 4K
  – Ethernet 1Gbps RJ-45
  – Optional Serial (True) D-sub 9-pin[8]
  – Optional MicroSDXC UHS-I[8]
  – Audio In/Out 3.5mm
  – Dual SIM (Nano-SIM 4FF x1, eSIM x1)
- On the optional Premium Keyboard:
  – Docking Connector 25-pin
  – USB-A x3 (5Gbps x2, 0.5Gbps x1)
  – SDXC UHS-II
  – HDMI
  – VGA D-sub 15-pin
  – Ethernet 1Gbps RJ-45
  – Serial (USB) D-sub 9-pin

WIRELESS
- Optional 4G EM7595 (up to 0.6Gbps)
  – 4G (LTE, LTE-A)
  – Multi carrier (FirstNet)
  – Satellite GPS & CBRS Band 48 Capable[9]
- Optional 5G EM9190 (up to 4.1Gbps)[12,13,14]
  – 4G (LTE, LTE-A), 5G (Sub6)
  – Multi carrier (First Net)
  – Satellite GPS & CBRS Band 48 Capable[9]
- Optional dedicated GPS (u-blox NEO-M9N)
- Dual antenna pass-through
- Intel® Wi-Fi 6E AX211 (up to 2.4 Gbps)
- Bluetooth® v5.3 (Class 1)

POWER
- Li-Ion batteries x2:
  – 7 hours (15 w/opt. long life batteries)[11]
  – Each standard battery: 11.1V, 2050mAh typical (1990mAh min)
  – Each long life battery: 10.8V, 4420mAh typical (4120mAh min)[12]
- Battery charging time: 3 hours (with parallel charging technology)[11]
- 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 slots x2 (on tablet and optional Premium Keyboard)
- Encrypted OPAL SSD's
- Optional fingerprint reader[5]
  – Active Directory (385 DPI)
- Optional insertable Smart Card reader[5]
- Optional contactless Smart Card reader 13.56MHz (ISO 14443 A/B, 15693, 18092)[5]

DIMENSIONS & WEIGHT
- 12.1" x 9.6" x 0.9" (12.3" x 11.4" x 1.8" with optional Premium Keyboard)[13]
- 3.4 lbs. (6.2 lbs. with optional Premium Keyboard)[14]

WARRANTY
- 3-year limited warranty, parts and labor

INTEGRATED OPTIONS
- 4G EM7595 or 5G EM9190 modem
- Dedicated GPS (u-blox NEO-M9N)
- Choice of 1D/2D capable barcode reader (N6703HD), serial (true), or 2nd USB-A port, or MicroSDXC
- Choice of insertable Smart Card, contactless Smart Card, fingerprint reader or quick-release SSD (comes with insertable Smart Card and long life batteries)
- Optional emissive or rubber keyboards

Please consult your reseller or Panasonic representative to learn more about the TOUGHBOOK 33 and the wide variety of accessories and services offered.

1. Requires purchase of 31 Vehicle Dock Adapter (VDA). VDA has been tested and approved to work with Gamber-Johnson 7160-0318 and Havis PAN-111/112 vehicle docks. Do not use with other vehicle docks without consulting first with your Panasonic representative.
2. 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. IP rating requires both batteries in tablet.
3. Requires training, approval and/or purchase of a SSD no return service sku through Panasonic, otherwise any damage incurred will be out of warranty and not eligible for advance exchange. Please contact a Panasonic representative for program details.
4. Optional Quick-release SSD (comes with Insertable Smart Card reader and Long Life Batteries) adds a bump out which increases overall height by 0.5" and weight by 1.3 lbs, prohibits use in convertible mode. Not compatible with 5G EM9190 modem, 33 Tablet Vehicle Dock or rotating hand strap or shoulder strap.
5. Insertable Smart Card, Contactless Smart Card, Fingerprint Readers & optional Quick-release SSD (comes with Insertable Smart Card reader and Long Life Batteries) are mutually exclusive.
6. 1GB = 1,000,000,000 bytes. Total usable memory will be less depending upon actual system configuration.
7. Fn keys, I/O ports, reverse docking into convertible mode available on Premium Keyboard only. Lite Keyboard opens at 100° angle.
8. Barcode, Serial (true), USB-A 0.5Gbps and MicroSDXC 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 using Band 48.
10. Requires software and activation to enable theft protection.
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 test results from MobileMark 25 at 250 nit, connected to Wi-Fi and using the Office Productivity and Creativity scenarios.
12. Long Life Batteries add a bump out which prohibits use in convertible mode. Not compatible with Gamber-Johnson tablet vehicle dock when using a rotating hand strap or TrimLine tablet vehicle dock when using a rotating hand strap or long life batteries. 5G EM9190 modem is not compatible with any tablet vehicle dock, rotating hand strap, quick-release SSD or insertable smart card reader. For units originally ordered with standard batteries, changing to long life batteries requires a hardware retrofit to the unit.
13. Tablet with Lite Keyboard is 12.1" (L) x 9.6" (W) x 1.5" (H). Optional Long Life Batteries adds 0.4" (H). Optional 5G EM9190 modem (comes with Long Life Batteries) or Quick-release SSD (comes with Insertable Smart Card reader and Long Life Batteries) add 0.5" (H).
14. Tablet with Lite Keyboard is 4.8 lbs. Optional Long Life Batteries adds 0.8 lbs. Optional 5G EM9190 modem (comes with Long Life Batteries) adds 1.0 lbs. Optional Quick-release SSD (comes with Insertable Smart Card reader and Long Life Batteries) adds 1.3 lbs.