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Panasonic



TOUGHBOOK 33

- First fully rugged product with a 3:2 screen for easier handling and better viewing of business applications
- Generation of vehicle dock backwards compatibility[1]
- Infrared webcam and Windows Hello enables biometric user authentication
- Optional quick-release SSD includes insertable SmartCard CAC and long life batteries
- Twin battery design enables hot-swap battery replacement for continuous use
- Optional FirstNet Ready™ EM7511 Band 14 mobile broadband

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 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 a generation of backward compatibility[1]. Available innovative vehicle dock adapter allows drop-in placement onto any of Panasonic's large installed base of TOUGHBOOK 31 vehicle docks, offering investment protection while saving time and resources. A wide range of integrated options such as serial port, barcode, fingerprint, insertable and contactless SmartCard CAC readers as well as optional FirstNet Ready™ CF-33 EM7511 Band 14 mobile broadband assure TOUGHBOOK 33 can be customized to meet the unique needs of a diverse customer base.

MIL-STD-810G

MIL-STD-461F

IP65

C1D2 HAZ LOC

4-FOOT DROP RATING

TOUGHBOOK®

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SPEC SHEET

TOUGHBOOK 33 Mk2

TOUGHBOOK 33

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SOFTWARE

- Windows® 10 Pro 64-bit
- Panasonic Utilities and Recovery Partition
- Enterprise ready driver packages including CAB files and one-click driver bundles

CERTIFICATIONS AND DURABILITY

- MIL-STD-810G
  - 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 ANSI hazardous location C1D2 (class 1 div 2) groups ABCD
- Magnesium alloy chassis encased with ABS and elastomer edges
- Built-in dual purpose handle & kickstand (on optional Premium Keyboard)
- Solid state drive heater
- Removable storage drive[3] or optional quick-release storage drive[4,5]
- Removable battery
- Optional rotating hand strap
- Reinforced locking port covers
- Raised bezel for LCD impact protection
- Replaceable screen protector

CPU

- Intel® Core™ i5-10310U vPro™ processor
  - 1.7GHz with Turbo Boost up to 4.4GHz, 6MB cache
- Intel® Core™ i7-10810U vPro™ processor
  - 1.1GHz with Turbo Boost up to 4.9GHz, 12MB cache

STORAGE & MEMORY

- Factory installed 16GB or 32GB RAM (DDR4-2666MHz)[6]
- 512GB or 1TB removable OPAL NVMe SSD with heater[3,6]
- Optional quick-release SSD (comes w/Insertable SmartCard CAC reader and long life batteries)[4,5]

DISPLAY

- 12.0" 3:2 QHD 2160 x 1440
  - Capacitive gloved multi touch + digitizer
- 2-1200 nit
- Direct bonding
- Anti-reflective (AR) screen treatment
- Intel UHD Graphics
- Supports up to 5 monitors
- Concealed Mode; Day/Night Mode

AUDIO

- Integrated dual array microphone
- Intel® High Definition Audio compliant
- Integrated 91db speakers (front-facing)
- On-screen and button volume and mute controls

CAMERAS

- 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, tether and cleaning cloth
- Supports glove mode and rain mode
- 7 tablet buttons (5 user-definable including A1/A2 buttons)
- On-screen QWERTY keyboard
- Optional emissive keyboards (Lite and Premium) and rubber keyboard (Premium):[7]
  - Backlit (emissive:red, rubber:white) with 4 adjustable levels
  - 87-key with dedicated Windows® key
  - Pressure-sensitive touchpad with multi touch

INTERFACE & EXPANSION

- On the tablet:
  - USB-C 10Gbps (w/PD)
  - USB-A 5Gbps (1.5A)
  - Optional USB-A 0.5Gbps[8]
  - HDMI
  - 10/100/1000 Ethernet RJ-45
  - Optional Serial (True) D-sub 9-pin[8]
  - Audio In/Out 3.5mm Mini-jack stereo
  - 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
  - 10/100/1000 Ethernet RJ-45
  - Serial (USB) D-sub 9-pin

WIRELESS

- Optional (Band 14 EM7511) 4G LTE-A multi carrier w/satellite GPS
  - AT&T, FirstNet™, Verizon
  - CBRS Band 48 Capable[9]
- Optional dedicated GPS (u-blox NEO M8N)
- Dual high-gain antenna pass-through
- Intel® Wi-Fi 6 AX201
- Bluetooth® v5.1 (Class 1)

SECURITY FEATURES

- Intel® Hardware Shield
- Secured-core PC
- TPM v.2.0
- NIST BIOS compliant
- Persistence® technology by Absolute embedded in BIOS[10]
- Kensington cable lock slots x2 (on tablet and optional Premium Keyboard)
- Optional fingerprint reader[5]
- Optional insertable SmartCard CAC reader[5]
- Optional contactless SmartCard CAC reader 13.56MHz (ISO 14443 A/B compliant)[5]

POWER

- Li-Ion batteries x2:
  - 10 hours (20 w/opt. long life batteries)[11]
  - Each standard battery: 11.1V, 1990mAh
  - Each long life battery: 10.8V, 4120mAh[12]
- Battery charging time: 3 hours (with in parallel charging technology)[11]
- AC Adapter: AC 100V-240V 50/60Hz, auto sensing/switching worldwide power supply

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. (6.1 lbs. with optional Premium Keyboard)[14]

WARRANTY

- 3-year limited warranty, parts and labor

INTEGRATED OPTIONS

- 4G LTE multi carrier with satellite GPS (Band 14 EM7511)
- Dedicated GPS (u-blox NEO-M8N)
- Choice of 1D/2D capable barcode reader (N6603), serial (true), or second USB-A port
- Choice of insertable SmartCard CAC, contactless SmartCard CAC, fingerprint reader or quick-release SSD (comes with insertable SmartCard CAC 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 Tested by national independent third party lab following MIL-STD-810G Method 516.6 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 SmartCard reader and Long Life Batteries) adds a bump out which increases overall height by 0.6" and weight by 1.3 lbs, prohibits use in convertible mode. Not compatible with 33 Tablet Vehicle Dock or rotating hand strap or shoulder strap.

5 Insertable SmartCard CAC, Contactless SmartCard CAC, Fingerprint Readers & optional Quick-release SSD (comes with Insertable SmartCard CAC 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) and USB-A 0.5Gbps Port 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 LTE 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 testing results from MobileMark 2014 at 150 nit and using no cellular mobile broadband.

12 Long Life Batteries add a bump out which prohibits use in convertible mode. Not compatible with optional Quick-release SSD or with Gamber-Johnson CF-33 Tablet Vehicle Dock when using a rotating hand strap. For units originally ordered with standard batteries, changing to long life batteries requires a hardware retrofit to the unit. Contact the Panasonic National Service Center for information and evaluation.

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 Quick-release SSD (comes with Insertable SmartCard CAC reader and Long Life Batteries) adds 0.6" (H).

14 Tablet with Lite Keyboard is 4.8 lbs. Optional Long Life Batteries adds 0.8 lbs. Optional Quick-release SSD (comes with Insertable SmartCard CAC reader and Long Life Batteries) adds 1.3 lbs.

TOUGHBOOK 33 Mk2

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