Panasonic

Panasonic recommends Windows.

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

MIL-STD-810G

MIL-STD-461F

IP65

4-FOOT DROP RATING

P.180
GET WORK DONE.™

ENGINEERED TO EQUIP THE EXTRAORDINARY.

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.

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TOUGHBOOK®

TOUGHBOOK 33

Panasonic recommends Windows.

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

DURABILITY
- MIL-STD-810G certified (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 certified[2]
- IP65 certified sealed all-weather design[2]
- Magnesium alloy chassis encased with ABS and elastomer edges
- Built-in dual purpose handle & kickstand (available on Premium Keyboard)
- Solid state drive heater
- Removable battery
- Removable storage drive[3] or optional quick-release storage drive[4]
- Reinforced locking port covers
- Raised bezel for LCD impact protection
- Preinstalled replaceable screen film for LCD protection

CPU
- Intel® Core™ i5-7300U vPro™ processor
  2.6GHz with Turbo Boost up to 3.5GHz, 3MB cache
- Intel® Core™ i7-7600U vPro™ processor[5]
  2.8GHz with Turbo Boost up to 3.9GHz, 4MB cache

STORAGE & MEMORY
- Factory installed 8GB or 16GB SDRAM (LPDDR3-1866MT/s)[6]
- 256GB or 512GB removable SSD with heater[3,6]
- Optional quick-release SSD (comes with Insertable Smartcard CAC reader and long life batteries)[4]
- Optional OPAL encrypted SSD with heater

DISPLAY
- 12.0" 3:2 QHD 2160 x 1440
  – 10-point capacitive gloved multi touch + digitizer
- 2-1200 nit
- Direct bonding
- Anti-reflective (AR) screen treatment
- Intel HD Graphics 620
- 4 monitor support (with Premium Keyboard)
- Concealed mode (configurable)

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

CAMERAS
- 1080p webcam with dual array mic and camera on/off indicator
  – Infrared with Windows Hello support
- 8MP rear camera with autofocus and triple LED flash

KEYBOARD & INPUT
- Waterproof IP55 stylus pen with integrated 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 keyboards (Lite and Premium):[7]
  – Emissive red backlit with 4 adjustable levels
  – 87-key with dedicated Windows® key
  – Pressure-sensitive touchpad with multi touch

INTERFACE & EXPANSION
- On the tablet:
– Docking Connector	25-pin
– USB 3.0 x1 (optional 2nd USB 2.0)[8]	Type A (USB 3.0 is 1.5A)
– MicroSDXC	UHS-I
– HDMI	Type A
– 10/100/1000 Ethernet	RJ-45
– Optional Serial (True)[8]	D-sub 9-pin
– Audio In/Out	3.5mm Mini-jack stereo
– Nano-SIM	4FF
- On the Premium Keyboard:
– Docking Connector	25-pin
– USB 3.0 x2, USB 2.0 x1	Type A
– SDXC	UHS-II
– HDMI	Type A
– VGA	D-sub 15-pin
– 10/100/1000 Ethernet	RJ-45
– Serial (USB)	D-sub 9-pin

WIRELESS

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- Optional 4G LTE-Advanced multi carrier mobile broadband with satellite GPS
  – Certified with AT&T, FirstNet™, Verizon, Sprint and P.180
- Optional dedicated GPS (u-blox NEO M8N)
- Dual high-gain antenna pass-through
- Intel® Dual Band Wireless-AC 8265 Wi-Fi 802.11a/b/g/n/ac
- Bluetooth® v4.1 (Class 1) + EDR

POWER
- Hot-swappable twin Li-Ion battery packs
  – Standard lightweight batteries: 11.1V, 1990mAh (each battery)
  – Optional long life batteries: 10.8V, 4120mAh (each battery)[9]
- Battery operation:
  – 10 hours (20 hours with opt. long life batteries)[10]
- Battery charging time: 3 hours (with in parallel charging technology)[10]
- AC Adapter: AC 100V-240V 50/60Hz, auto sensing/switching worldwide power supply

SECURITY FEATURES
- TPM v.2.0
- NIST BIOS compliant
- Persistence® technology by Absolute embedded in BIOS[11]
- Kensington cable lock slots x2 (on tablet and Premium Keyboard)
- Optional fingerprint reader[12]
- Optional insertable SmartCard CAC reader[12]
- Optional contactless SmartCard CAC reader 13.56MHz (ISO 14443 A/B compliant)[12]

WARRANTY
- 3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT
- 12.3" (L) x 11.4" (W) x 1.8" (H)[13]
- 6.1 lbs.[14]

HAZARDOUS LOCATION CERTIFICATIONS
- ANSI/ISA 2.12.01-2013
  – Optional class I division 2, groups ABCD certified model

INTEGRATED OPTIONS
- 4G LTE multi carrier mobile broadband with satellite GPS (EM7455 or Band 14 EM7511)
- Dedicated GPS (u-blox NEO-M8N)
- Choice on tablet of 1D/2D capable barcode reader (N6603), serial (true), or second USB 2.0 port
- Choice on tablet of insertable SmartCard CAC, contactless SmartCard CAC, fingerprint reader or quick-release SSD (comes with insertable SmartCard CAC and long life batteries)

SELECT ACCESSORIES

AC Adapter 100W (3-prong)	CF-AA5713AM
Standard Lightweight Battery Pack	CF-VZSU1AW
Long life Battery Pack[15]	CF-VZSU1BW
4-Bay Battery Charger	CF-VCB331M
LIND Car Charger 120W	CF-LNDDC120
LIND Solar Charge System	PASC1580-4464
Toughmate Mobility Bundle with handle & shoulder strap	TBC33MBBDL-P
Toughmate Rotating Hand Strap with shoulder strap[9]	TBC33HDSTP-P
Rotating Hand Strap with stylus holder & kickstand[9]	CF-VST332U
Carry Strap	CF-VST331U
Shoulder Strap[9]	CF-VNS331U
Laptop Desktop Dock (requires Premium Keyboard)	CF-VEB331U
Tablet Desktop Cradle	CF-VEB332U
Laptop 2-in-1 Vehicle Docks (requires Premium Keyboard)	
– Gamber-Johnson (dual RF)	GJ-33-LVD2
– Havis (dual RF)	HA-33LDS2
Tablet Lite Vehicle Docks[4,9]	
– Gamber-Johnson (dual RF)	GJ-33-TVD2-L
– Havis (dual RF)	H-33-TVD2-L
31 Vehicle Dock Adapter (VDA) with Lite Keyboard	
– Single Pass	CF-VVK332M
– Dual Pass	CF-VVK331M
Lite Keyboard	CF-VKB331M
Premium Keyboard	CF-VEK331LMP
AntennaPlus Dual LTE & GPS Antenna Kit	
– Threaded White Mount	AP-PAN-CCGPD-Q-WH
Multi Touch + Digitizer IP55 Stylus	CF-VNP023U
Tether	CF-VNT002U
12.0" LCD Protector Film	CF-VPF34U

Please consult your reseller or Panasonic representative before purchasing.

[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. Insertable SmartCard CAC, Contactless SmartCard CAC, Fingerprint Readers and Optional Quick-release SSD are mutually exclusive.

[5] Requires special order. Please contact a Panasonic representative for details.

[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 2nd USB 2.0 Port are mutually exclusive.

[9] 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.

[10] 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.

[11] Requires software and activation to enable theft protection.

[12] Insertable SmartCard CAC, Contactless SmartCard CAC, Fingerprint Readers and optional Quick-release SSD (comes with Insertable Smartcard CAC reader and Long Life Batteries) are mutually exclusive.

[13] Includes tablet and Premium Keyboard. Tablet with Lite Keyboard is 12.1" (L) x 9.6" (W) x 1.5" (H). Tablet when detached is 12.1" (L) x 9.6" (W) x 0.9" (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] Includes tablet and Premium Keyboard. Tablet with Lite Keyboard is 4.8 lbs. Tablet when detached is 3.4 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.

[15] Changing from standard to long life batteries on a unit originally ordered with standard batteries requires also a new battery panel (contact Panasonic National Service Center for retrofit information).

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