Panasonic CONNECT

TOUGHBOOK®



TOUGHBOOK G2

- Innovative modular design with three expansion areas including a quick-release SSD
- Backward compatible with most TOUGHBOOK G1 and 20 docks[1]
- Infrared webcam and Windows Hello enables biometric user authentication
- Quick-release SSD expansion with 512GB, 1TB or 2TB OPAL SSD[14]
- Optional bridge battery enables hot-swap battery replacement for continuous use
- Optional 5G with Sub6, C-Band[11] & mmWave (EM9190) or 4G (EM7511)

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

Panasonic has pioneered the TOUGHBOOK G2, a groundbreaking modular product design that has three expansion areas offering 84 (no xPAk is an option too) 3 drives x (7 top) x 4 (rear) [13,14] different combinations to deliver the ultimate computing experience. The TOUGHBOOK G2 is the evolution of two top-selling TOUGHBOOK products; it features a 2-in-1 design and keeps backward compatibility to most docks[1] making it possible for customers to upgrade technology while reusing existing mounting hardware. Network capabilities are also enhanced with cellular options of 4G or 5G that has support for Sub6, C-Band[11] and mmWave frequencies. With a keyboard option and up to an 18.5 hour battery life, it is aimed at professionals who need a rugged, yet versatile, device they can rely on in a wide range of challenging work environments.

MIL-STD-810H

MIL-STD-461G

IP65

C1D2 HAZ LOC

6-FOOT DROP RATING

SPEC SHEET

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TOUGHBOOK G2

SOFTWARE

- Windows® 11 Pro
- Panasonic Utilities and Recovery Partition
- Enterprise ready driver packages including CAB files and one-click driver bundles

CERTIFICATIONS & DURABILITY

- MIL-STD-810H[2]
- MIL-STD-461G
- IP65
- 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 keyboard)
- Solid state drive heater
- Quick-release storage drive
- Removable battery
- Optional rotating hand strap
- Reinforced locking port covers
- Raised corner guards for LCD impact protection
- Replaceable screen protector

CPU

- Intel® Core™ i5-1245U vPro® processor
  - 1.7GHz with Turbo Boost up to 4.4GHz, 12MB 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)[3]
- 512GB, 1TB or 2TB Quick-release[14] OPAL NVMe SSD with heater[3]

DISPLAY

- 10.1" WUXGA 1920 ×1200
  - Capacitive gloved multi touch + digitizer
- Direct bonding
- 2-1000 NIT
- 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 88db 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 with LED flash
- Optional thermal camera (FLIR Lepton 3.5)[4]

KEYBOARD & INPUT

- IP55 2 button digitizer pen (right click & erase), stylus holder, tether and cleaning cloth
- Supports glove mode and rain mode
- 8 tablet buttons (6 user-definable including A1/A2/A3 buttons)
- On-screen QWERTY keyboard
- Optional emissive keyboard and rubber keyboard:
  - Backlit (color-selectable) with 4 adjustable levels
  - 82-key with dedicated Windows® key
  - Gen1 resistive touchpad with scrolling

INTERFACE

- On the tablet:
  - USB-C 40Gbps (w/Thunderbolt4)[11]
  - USB-C 10Gbps (w/PD)[12]
  - USB-A 5Gbps
  - Optional 2nd USB-A 0.5Gbps[4]
  - 1Gbps Ethernet RJ-45
  - Optional 2nd Ethernet RJ-45[4]
  - Optional True Serial Dongle D-sub 9-pin[4]
  - Dual SIM (Nano-SIM 4FF x1, eSIM x1)
  - Optional MicroSD Slot [4,13]
  - Optional Fingerprint Reader with Active Directory[8,13]
- On the optional keyboard:
  - Docking Connector 24-pin
  - USB-C 5Gbps
  - USB-A 5Gbps

WIRELESS

- Optional 4G EM7511 (up to 600Mbps)
  - 4G (LTE, LTE-A)
  - Multi carrier (AT&T, First Net, Verizon)
  - Satellite GPS & CBRS Band 48 Capable[5]
- Optional 5G EM9190 (up to 5.5Gbps)[1]
  - 4G (LTE, LTE-A), 5G (Sub6, C-Band[11], mmWave)
  - Multi carrier (AT&T, First Net, Verizon)
  - Satellite GPS & CBRS Band 48 Capable[5]
- Optional dedicated GPS (u-blox NEO-M8J)[6]
- Dual antenna pass-through
- Intel® Wi-Fi 6E AX211 (up to 5.4Gbps)[11]
- Intel® Wi-Fi 6 AX201 (up to 2.4Gbps)[12]
- Bluetooth® v5.3(Class 1)[11]
- Bluetooth® v5.1 (Class 1)[12]
- Airplane mode Fn key (on optional keyboard)

SECURITY FEATURES

- Intel® Hardware Shield
- Secured-core PC
- TPM v.2.0
- NIST BIOS compliant
- Persistence® technology by Absolute in BIOS[7]
- Kensington cable lock slots x2 (on tablet and optional keyboard)
- Optional Fingerprint Reader with Active Directory[13]
- Optional insertable Smart Card CAC reader[8]
- Optional contactless Smart Card CAC reader
  - 13.56MHz (ISO 14443 A/B, ISO 18096)[8]

POWER

- Li-Ion battery:
  - 18.5 hours[9]
  - 10.8V, 6600mAh typical (6300mAh min)
- Optional bridge battery: 1 minute hot swap time
- Battery charging time: 3 hours
- AC Adapter: AC 100V-240V 50/60Hz, Auto Sensing/Switching worldwide power supply

DIMENSIONS & WEIGHT

- 11.0" x 7.4" x 1.1" (tablet only)[10]
- 2.9 lbs. (4.9 lbs. with optional keyboard)

WARRANTY

- 3-year limited warranty, parts and labor

INTEGRATED OPTIONS

- 5G EM9190 or 4G EM7511 modem
- Dedicated GPS (u-blox NEO-M8N)
- Optional emissive keyboard FZ-VEKG21LM
- User Replaceable SSD for i5 based G2mk2 models
  - 512GB OPAL SSD FZ-VSDG25122
  - 1TB OPAL SSD FZ-VSDG21T22
  - 2TB OPAL SSD FZ-VSDG22T22
- User Replaceable SSD for i7 based G2mk1models
  - 512GB OPAL SSD FZ-VSDG25121
  - 1TB OPAL SSD FZ-VSDG21T21
- Top Expansion Area xPAK's
  - Barcode Reader FZ-VBRG211U
  - 2nd USB-A FZ-VUBG211U
  - 2nd LAN FZ-VLNG211U
  - True Serial with Dongle FZ-VSRG211U
  - Thermal Camera FZ-VTSG211U
  - MicroSD ..... FZ-VSMG221U[13]
- Rear Expansion Area xPAK's
  - Insertable Smart Card FZ-VSCG211U
  - Contactless Smart Card FZ-VRFG211U
  - Fingerprint Reader with Active Directory and local storage ..... FZ-VFPG222M[13]

Please consult your reseller or Panasonic representative to learn more about the TOUGHBOOK G2 and the wide variety of accessories and services offered.

1 Not compatible with vehicle docks 7160-0595-00-P, 7160-0595-02-P, GJ-A2-TVD2-S, GJ-A2-TVC-S, GJ-A2-TVD0-S.
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.
3 1GB = 1,000,000,000 bytes. Total usable memory will be less depending upon actual system configuration.
4 Barcode Reader, Thermal Camera, 2nd USB-A, 2nd LAN, MicroSD[13], True Serial Dongle xPAK's 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 LTE network using Band 48.
6 Optional dedicated GPS is not compatible with 5G model.
7 Requires software and activation to enable theft protection.
8 Insertable Smart Card CAC Reader, Contactless Smart Card CAC Reader and Finderprint reader[13] are mutually exclusive
9 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.
10 Tablet with keyboard option is 11.3"x9.3"x2.1".
11 Only compatible with the i5 based G2mk2.
12 Only compatible with the i7 based G2mk1.
13 MicroSD and Fingerprint Reader xPAKs are only compatible with the i5 and i7 based G2mk1s after BIOS upgrade.
14 2TB SSD Only compatible with the i5 based G2mk2.

SPEC SHEET

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