



TOUGHBOOK G2

- Two CPU Options: The AI (NPU) enabled Intel Core™ Ultra5 processor 135U or Intel® Core™ i7 1270P (both with vPro® Technology)
- Innovative modular design with two expansion areas and a quick-release SSD
- Backward compatible with most TOUGHBOOK G1 and 20 docks¹
- Infrared webcam and Windows Hello enables biometric user authentication
- Quick-release SSD storage with 512GB or 1TB or 2TB OPAL SSD
- Optional bridge battery enables hot-swap battery replacement for continuous use
- Choice of 4G modem or 5G modem which adds Sub6 and C-Band

10" TABLET EASILY CONVERTS TO A LAPTOP WITH OPTIONAL KEYBOARD

Panasonic pioneered the 10 inch rugged tablet market. With the Panasonic TOUGHBOOK G2, we offer a modular and powerful product that has two expansion areas and quick release SSDs offering 84 different combinations to deliver the ultimate computing experience. The TOUGHBOOK G2 features a 2-in-1 design and keeps backward compatibility to most CF-20 and FZ-G1 docks¹ making it possible for customers to upgrade technology while reusing existing docks and mounting hardware. It offers the choice of two cellular modems – a 4G modem or 5G modem which adds support of 5G Sub6 and C-band with speeds up to 4.1Gbps. With a keyboard option and up to a 14.5 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

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RUGGED & CONNECTED

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SPEC SHEET



TOUGHBOOK G2

SOFTWARE

- Windows® 11 Pro, Red Hat Enterprise Linux 9.4¹⁰
- Panasonic Utilities and Recovery Partition
- Waves MaxxAudio®
- COM Splitter Software
- Enterprise ready driver packages including CAB files and one-click driver bundles

CERTIFICATIONS & 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 atmosphere²
- MIL-STD-461G
- IP65³
- Optional C1D2 (class 1 div 2) groups ABCD
- Magnesium alloy chassis encased with ABS and elastomer edges
- Handle/kickstand (on optional keyboard)
- User-removable xPAK's, battery and caged SSD (w/heater)
- Reinforced locking port covers
- Raised corner guards for LCD impact protection
- Replaceable screen protector

CPU

- Intel® Core™ Ultra 5 vPro® processor 135U (12-core) – Up to 4.4Ghz, 12MB cache, 1.4Ghz AI Boost NPU
- Intel® Core™ i7-1270P vPro™ processor (12-core) – Up to 4.8Ghz, 18MB cache

STORAGE & MEMORY

- Factory installed 16GB or 32GB RAM³ (LPDDR5x 7467MHz)¹¹ (LPDDR4x 4266MHz)¹¹
- 512GB or 1TB or 2TB quick-release OPAL NVMe SSD with heater³

DISPLAY

- 10.1" WUXGA 1920 x 1200
- Capacitive gloved multi touch + digitizer
- 2-1000 NIT
- Direct bonding
- Anti-reflective (AR) screen treatment
- Graphics
- Intel Graphics¹²
- Intel Iris Xe Graphics¹¹
- Supports up to 4 monitors
- Concealed Mode; Night Mode

AUDIO

- Integrated dual-array mic w/AI noise reduction¹⁰
- Waves MaxxAudio®
- Integrated 88db speakers (front-facing)
- On-screen and button volume and mute controls

CAMERAS

- 2MP (1080p) webcam w/privacy cover + dual array mic¹⁰
- Infrared with Windows Hello support
- 13MP¹¹, 8MP¹¹ rear camera with autofocus with triple LED flash¹⁰
- Optional thermal camera (FLIR Lepton 3.5)⁴

KEYBOARD & INPUT

- IPS5.2 button digitizer pen (right click & erase), stylus holder and tether
- 5 modes (rain, glove, touch, pen, pen/touch)
- 8 tablet buttons (6 user-definable including A1/A2/A3 buttons)
- On-screen QWERTY keyboard
- Optional 81-key emissive and rubber keyboard
- Backlit (color-selectable) with 4 adjustable levels
- Gen1 resistive touchpad with scrolling

INTERFACE

- On the tablet:
 - USB-C Thunderbolt™ 4, 40 Gbps 3A (PD, DP)
 - USB-A 5Gbps 0.9A
 - Optional 2nd USB-A 0.5Gbps 0.5A⁴
 - Ethernet 1Gbps RJ-45
 - Optional Serial (True) Dongle D-sub 9-pin⁴
 - Optional MicroSDXC UHS-I⁴
 - Dual SIM (Nano-SIM 4FF x1, eSIM x1)
- On the optional keyboard:
 - Docking Connector 24-pin
 - USB-C 5Gbps
 - USB-A 5Gbps

WIRELESS

- Optional 4G EM7595¹², EM7511¹¹ (up to 0.6Gbps)
 - 4G (LTE, LTE-A)
 - Multi carrier (AT&T, FirstNet, Verizon)
 - Satellite GPS & CBRS Band 48 Capable⁵
- Optional 5G EM9190 (up to 4.1 Gbps)⁶
 - 4G (LTE, LTE-A), 5G (Sub6, C-Band)¹²
 - Multi carrier (AT&T, FirstNet, Verizon)
 - Satellite GPS & CBRS Band 48 Capable⁵
- Optional dedicated GPS⁶ (u-blox NEO-M9J,¹² NEO-M8J¹¹)
- Dual antenna pass-through
- Intel® Wi-Fi 6E AX211 (up to 2.4 Gbps)
- Bluetooth® v5.3(Class 1)

POWER

- Li-Ion battery:
 - 14.5 hours⁹
 - 10.8V, 6600mAh typical (6300mAh min)
- Optional bridge battery: 1 minute hot swap time
- Battery charging time: 3 hours
- TOUGHBOOK Smart Battery Technology
- AC Adapter: AC 100V-240V 50/60Hz, Auto Sensing/Switching worldwide power supply

SECURITY FEATURES

- Intel® Hardware Shield
- Secured-core PC
- TPM v2.0
- NIST BIOS compliant
- Persistence⁸ technology by Absolute in BIOS⁷
- Local Platform Erase
- Kensington cable lock slots x2 (on tablet and optional keyboard)
- Optional Fingerprint Reader with Active Directory⁸
- Optional insertable Smart Card CAC reader⁸
- Optional contactless Smart Card CAC reader
- 13.56MHz (ISO 14443 A/B, 18092)⁸

DIMENSIONS & WEIGHT

- 11.0" x 7.4" x 1.1" (11.3"x9.3"x2.1" w/opt. keyboard)
- 2.9 lbs. (4.9 lbs. with optional keyboard)

WARRANTY

- 3-year limited warranty, parts and labor

INTEGRATED OPTIONS

- 5G EM9190⁶ or 4G EM7595¹², EM7511¹¹ modem
- Dedicated GPS⁶ (u-blox NEO-M9J¹², NEO-M8J¹¹)
- Optional emissive (FZ-VEKG21LM) or rubber (FZ-VEKG21RM) keyboards
- SSD (for G2mk3 Ultra 5)
 - 512GB OPAL SSD FZ-VSDG25123
 - 1TB OPAL SSD FZ-VSDG21T23
 - 2TB OPAL SSD FZ-VSDG22T23
- SSD (for G2mk2 i7)
 - 512GB OPAL SSD FZ-VSDG25122
 - 1TB OPAL SSD FZ-VSDG21T22
 - 2TB OPAL SSD FZ-VSDG22T22
- Top Expansion Area xPAK's
 - Barcode Reader FZ-VBRG231M¹²
 - FZ-VBRG211M
 - 2nd USB-A FZ-VUBG211U
 - 2nd LAN FZ-VLNG211U
 - True Serial Dongle FZ-VSRG211U
 - Thermal Camera FZ-VTG211PU
 - MicroSDXC FZ-VSMG221U
- Rear Expansion Area xPAK's
 - Insertable Smart Card FZ-VSCG211U
 - Contactless Smart Card FZ-VRFG211M
 - Fingerprint (Active Dir.) FZ-VFPG222M

- 1 Not compatible with vehicle docks 7160-0595-00-P, 7160-0595-02-P, GJ-A2-TVD2-S, GJ-A2-TVC-S, GJ-A2-TVDD-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, MicroSDXC, Serial (True) 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 Fingerprint reader 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 25 at 250 nit and connected to Wi-Fi and using the Office Productivity and Creativity scenarios.
- 10 Part/SKU numbers with Red Hat Enterprise Linux have the camera and mic physically removed.
- 11 Available on G2mk2 i7
- 12 Available on G2mk3 Ultra 5

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SPEC SHEET

