

Panasonic CONNECT

TOUGHBOOK

TOUGH is
setting the
performance
standard



Explore our range
of rugged devices

 Windows 11

Intel® Core™ Ultra 5 processor


intel
CORE
ULTRA 5



Tablets



TOUGHBOOK G2

10.1" fully rugged
Windows tablet

TOUGHBOOK 33

12" fully rugged
Windows tablet

Mobile Computing Platform / CPU	Intel® Core™ Ultra5 processor 135U (with Intel vPro® Technology)	Intel® Core™ i5-1345U vPro™ Processor or Intel® Core™ i7 1370P vPro™ Processor
Operating System	Windows 11 Pro	Windows 11 Pro
Memory & Storage	16 GB DDR5x RAM (max. 32 GB) 512 GB OPAL NVMe SSD (up to 2 TB optional) with heater Quick-release SSD SKU optional	16 GB DDR4 RAM (max. 32 GB) 512 GB OPAL NVMe SSD (up to 2 TB optional) with heater
Display	10.1" Active Matrix (TFT) colour LCD 1,920 × 1,200 (WUXGA) LCD with sunlight-viewable glove-enabled capacitive touchscreen (up to 1,000 cd/m ²), IP55 digitiser	12.0" Active Matrix (TFT) colour LCD 2,160 × 1,440 (QHD) LCD with sunlight-viewable glove-enabled capacitive touchscreen (up to 1,200 cd/m ²), IP55 digitiser
Camera	Front: 2 MP with IR / privacy shutter (Windows Hello compliant) Rear: 13 MP with autofocus and LED flash	Front: 2 MP with IR / privacy shutter (Windows Hello compliant) Rear: 8 MP with autofocus and LED flash
Expansion Slots	Top Expansion Bay Area** – serial, 2D barcode reader, 2nd USB 2.0, micro SD, 2nd LAN, Thermal by FLIR® Rear Expansion Bay Area*** – smart card reader, HF-RFID (NFC), fingerprint reader	Configuration Port (Tablet)** – Serial, 2D barcode reader, 2nd USB 2.0 Business Expansion Module (Tablet)** – Smart card reader, HF-RFID (NFC), fingerprint reader
Interfaces	USB 3.2 Type A: x1 Thunderbolt 4: x1 LAN: x1 Headset: x1 DC In: x1 Port Replicator: x1 Dual Antenna Connector: x1	USB 3.2 Type A: x1 Thunderbolt 4: x1 USB 2.0: x1** HDMI: x1 LAN: x1 Native Serial Port: x1** Headset: x1 DC In: x1 Port Replicator: x1 Dual Antenna Connector: x1
Connectivity	Bluetooth®: 5.3 Class 1 Intel® Wi-Fi6E AX211 LAN: IEEE 802.3 10Base-T / IEEE 802.3u 100BASE-TX / IEEE 802.3ab 1000BASE-T 4G or 5G with eSIM support optional Dedicated GPS optional	Bluetooth®: 5.3 Class 1 Intel® Wi-Fi 6E AX211 LAN: IEEE 802.3 10Base-T / IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T 4G or 5G with eSIM support optional Dedicated GPS optional
Power	AC Adaptor: Input – 100-240 V AC, 50/60 Hz / Output – 15.6 V DC, 7.05 A Standard Battery: Lithium-ion 11.4V, 4,360mAh (50Whr) Extended Battery: Lithium-ion 10.8V, 6,300mAh (68Whr) Standard Battery Life: Approx 11 hours (Mobile Mark™ 25) Extended Battery Life: Approx. 15 hours (Mobile Mark™ 25)	AC Adaptor: Input – 100-240 V AC, 50/60 Hz / Output – 15.6 V DC, 4.06A Standard Battery: x2 Lithium-ion (3 cell, 22Whr) Extended Battery: x2 Lithium-ion (6 cell, 45 Whr) optional Standard Battery Life: Approx. 7.5 hours (Mobile Mark™ 25) Extended Battery Life: Approx. 15.5 hours (Mobile Mark™ 25)
Security Features	TPM (Trusted Platform Module), TCG V2.0 Integrated hardware security lock slot Microsoft Windows 11 Secured-core PC	TPM (Trusted Platform Module), TCG V2.0 Integrated hardware security lock slot Microsoft Windows 11 Secured-core PC
Dimensions (W × H × D) & Weight	279 × 188 × 23.5 mm / 11.0 × 7.4 × 1.0" (without protruding parts) Approx. 1.19 kg / 2.64 lb	Standard Battery: 308.0 × 243.6 × 21.6 mm / 12.1 × 9.6 × 0.9" (without protruding parts) Approx. 1.54 kg / 3.4 lb Extended Battery: 308.0 × 243.6 × 32.1 mm / 12.1 × 9.6 × 1.3" (without protruding parts) Approx. 1.9 kg / 4.1 lb
Ruggedisation	Water Resistance: IEC529 (JIS C0920) IPx5*** Dust Resistance: IEC529 (JIS C0920) IP6x*** Drop Resistance: MIL-STD 810H, 180 cm*** Operating Temperature: MIL-STD 810H, -29 to 60 °C***	Water Resistance: IEC529 (JIS C0920) IPx5*** Dust Resistance: IEC529 (JIS C0920) IP6x*** Drop Resistance: MIL-STD 810H, 150 cm*** Operating Temperature: MIL-STD 810H, -29 to 60 °C***

Laptops and 2-in-1 Devices



TOUGHBOOK G2

10.1" fully rugged 2-in-1
detachable Windows tablet

Intel® Core™ Ultra5 processor 135U
(with Intel vPro® Technology)

Windows 11 Pro

16 GB DDR5x RAM (max. 32 GB)
512 GB OPAL NVMe SSD (up to 2 TB optional) with heater
Quick-release SSD SKU optional

10.1" Active Matrix (TFT) colour LCD 1,920 × 1,200 (WUXGA) LCD
with sunlight-viewable glove-enabled capacitive touchscreen
(up to 1,000 cd/m²), IP55 digitiser

Front: 2 MP with IR / privacy shutter (Windows Hello compliant)
Rear: 13 MP with autofocus and LED flash

Top Expansion Bay Area** – serial, 2D barcode reader, 2nd USB 2.0, micro SD,
2nd LAN, Thermal by FLIR®
Rear Expansion Bay Area*** – smart card reader, HF-RFID (NFC), fingerprint reader

USB 3.2 Type A: ×1 (×1 Tablet, ×1 Keyboard)
USB 3.2 Type C: ×1
Thunderbolt 4: ×1
LAN: ×1
Headset: ×1
DC In: ×1
Port Replicator: ×1
Dual Antenna Connector: ×1

Bluetooth®: 5.3 Class 1
Intel® Wi-Fi6E AX211
LAN: IEEE 802.3 10Base-T / IEEE 802.3u 100BASE-TX / IEEE 802.3ab 1000BASE-T
4G or 5G with eSIM support optional
Dedicated GPS optional

AC Adaptor: Input – 100-240 V AC, 50/60 Hz / Output – 15.6 V DC, 7.05 A
Standard Battery: Lithium-ion 11.4 V, 4,360 mAh (50 Whr)
Standard Battery Life: Approx. 7 hours (Mobile Mark™ 25)
Extended Battery: Lithium-ion 10.8 V, 6,300 mAh (68 Whr)
Extended Battery Life: Approx. 11.5 hours (Mobile Mark™ 25)

TPM (Trusted Platform Module), TCG V2.0
Integrated hardware security lock slot
Microsoft Windows 11 Secured-core PC

287 × 235 × 52.7 mm / 11.3 × 9.3 × 2.1" (without protruding parts)
Approx. 2.1 kg / 4.62 lb

Water Resistance: IEC529 (JIS C0920) IPx5***
Dust Resistance: IEC529 (JIS C0920) IP6x***
Drop Resistance: MIL-STD 810H, 180 cm***
Operating Temperature: MIL-STD 810H, -29 to 60 °C***



TOUGHBOOK 33

12" fully rugged 2-in-1
detachable Windows notebook

Intel® Core™ i5-1345U vPro™ Processor
or Intel® Core™ i7 1370P vPro™ Processor

Windows 11 Pro

16 GB DDR4 RAM (max. 32 GB)
512 GB OPAL NVMe SSD (up to 2 TB optional) with heater

12.0" Active Matrix (TFT) colour LCD 2,160 × 1,440 (QHD) LCD
with sunlight-viewable glove-enabled capacitive touchscreen
(up to 1,200 cd/m²), IP55 digitiser

Front: 2 MP with IR / privacy shutter (Windows Hello compliant)
Rear: 8 MP with autofocus and LED flash

Configuration Port (Tablet)** – Serial, 2D barcode reader, 2nd USB 2.0
Business Expansion Module (Tablet)** – Smart card reader, HF-RFID (NFC),
fingerprint reader

SD/SDXC Memory Card: ×1 (Keyboard)
USB 3.2 Type A: ×3 (×1 Tablet, ×2 Keyboard)
Thunderbolt 4: ×1
USB 2.0: ×1 optional (Tablet**),
×1 (Keyboard)
HDMI: ×1 (Tablet),
×1 (Keyboard)
VGA: ×1 (Keyboard)

LAN: ×1 (Tablet), ×1 (Keyboard)
Native Serial Port: ×1 optional (Tablet**),
×1 (Keyboard)
Headset: ×1 (Tablet),
×1 (Keyboard)
DC In: ×2 (Tablet + Keyboard)
Port Replicator: ×1 (Keyboard)
Dual Antenna Connector: ×1 (Keyboard)

Bluetooth®: 5.3 Class 1
Intel® Wi-Fi6E AX211
LAN: ×2 IEEE 802.3 10Base-T / IEEE 802.3u 100BASE-TX / IEEE 802.3ab 1000BASE-T
(Tablet + Keyboard)
4G or 5G with eSIM support optional
Dedicated GPS optional

AC Adaptor: Input – 100-240 V AC, 50/60 Hz / Output – 15.6 V DC, 4.06A
Standard Battery: ×2 Lithium-ion (3 cell, 22Whr)
Extended Battery: ×2 Lithium-ion (6 cell, 45 Whr) optional
Standard Battery Life: Approx. 7 hours (Mobile Mark™ 25)
Extended Battery Life: Approx. 15 hours (Mobile Mark™ 25)

TPM (Trusted Platform Module), TCG V2.0
Integrated hardware security lock slot
Microsoft Windows 11 Secured-core PC

Standard Battery: 313.0 × 288.4 × 46.1 mm / 12.3 × 11.4 × 1.8"
(without protruding parts) Approx. 2.81 kg
Extended Battery: 313.0 × 288.4 × 56.6 mm / 12.3 × 11.4 × 2.2"
(without protruding parts) Approx. 3.14 kg

Water Resistance: IEC529 (JIS C0920) IPx5***
Dust Resistance: IEC529 (JIS C0920) IP6x***
Drop Resistance: MIL-STD 810H, 150 cm***
Operating Temperature: MIL-STD 810H, -29 to 60 °C***



TOUGHBOOK 40

14" fully rugged clamshell Windows notebook

Intel Core™ Ultra5 135H Processor (with Intel vPro Technology)
Intel Core™ Ultra7 165H Processor (with Intel vPro Technology) optional

Windows 11 Pro

16 GB DDR5 RAM (max. 64 GB)
512 GB NVMe OPAL SSD (max. 2 TB)

14" Active Matrix (TFT) IPS colour LCD 1,920 × 1,080 pixels
Full-HD (up to 1,200 cd/m²) anti-reflection with automatic glove and rain modes
10-finger capacitive touchscreen

5 MP with IR / privacy shutter (Windows Hello compliant) optional

Left Expansion Area** – 2nd SSD, smart card reader, DVD multi drive, Blu-ray drive
Right Expansion Area** – 2nd battery, smart card reader
Rear Expansion Area** – VGA + True Serial (RS232) + 2nd native GLAN, USB 3.1 Type A + True Serial (RS232) + 2nd HDMI, USB 3.1 Type A + USB 3.1 Type A + 2nd HDMI, USB 3.1
Palm Rest Expansion Area** – Fingerprint reader (Windows Hello, multi-user authentication), HF-RFID (NFC)

USB 3.2 Type A: x2
Thunderbolt 4: x1
Micro SDXC Memory Card: x1
HDMI: x1
Headset: x1
DC In: x1
Port Replicator: x1
Quad Path Through Connector: x1

Bluetooth® 5.3: Class 1
Wireless LAN Intel® Wi-Fi 7 BE200
LAN: IEEE 802.3 10Base-T / IEEE 802.3u 100BASE-TX / IEEE 802.3ab 1000BASE-T
4G or 5G with eSIM support optional
Dedicated GPS optional

AC Adapter Input: 100-240 V AC, 50/60 Hz, Output: 15.6 V DC, 7.05 A
Standard Battery: Lithium-Ion 10.8 V, 6,500 mAh (typ.), 6,300 mAh (min.)
Standard Battery Life: 12 hours (Mobile Mark™ 25)
Extended Battery Life: 24 hours with 2nd battery (Mobile Mark™ 25)
Power management standby function, ACPI BIOS
Hot Swap* with 2nd Battery

TPM (Trusted Platform Module), TCG V2.0
Integrated hardware security lock slot
Microsoft Windows 11 Secured-core PC

354 × 301 × 54.4 mm (without protruding parts)
Approx. 3.375 kg

Water Resistance: IEC529 (JIS C0920) IPX6***
Dust Resistance: IEC529 (JIS C0920) IP6X***
Drop Resistance: MIL-STD 810H, 180 cm***
Operating Temperature: MIL-STD 810H, -29 to +60 °C***



TOUGHBOOK 55

14" rugged clamshell Windows notebook

Intel® Core™ i5 1345U vPro™ Processor
or Intel® Core™ i7 1370P vPro™ Processor

Windows 11 Pro

16 GB DDR4 RAM (max. 64 GB)
512 GB NVMe OPAL SSD (max. 2 TB) (with heater)

HD Model: 14" Active Matrix (TFT) colour LCD 1,366 × 768 pixels
Full-HD Touch model: 14" Active Matrix (TFT) colour LCD 1,920 × 1,080 pixels, capacitive 10-finger touchscreen, up to 1,000 cd/m² brightness

HD Model: 2 MP with IR / privacy shutter (Windows Hello compliant) optional
Full-HD Touch model: 2 MP with IR / privacy shutter (Windows Hello compliant)

TOUGHBOOK Universal Bay** – 2nd SSD, smart card reader, DVD multi drive, Blu-ray drive
Front Expansion Slot** – 2nd battery, fingerprint reader, HF-RFID (NFC), smart card reader
Rear Expansion Slot** – VGA + True Serial + 4th USB 3.2, VGA + True Serial + 2nd native GLAN, VGA + True Serial + Rugged USB 2.0, 4th USB 3.2 + USB Type C

Micro SDXC Memory Card: x1
USB 3.2 Type A: x2
Thunderbolt 4: x1
HDMI: x1
LAN: x1
Headset: x1
DC In: x1
Port Replicator: x1*
Dual Pass-Through Connector: x1*

Bluetooth®: 5.3 Class 1
Intel® Wi-Fi6E AX211
LAN: IEEE 802.3 10Base-T / IEEE 802.3u 100BASE-TX / IEEE 802.3ab 1000BASE-T (2nd GLAN optional)
4G or 5G with eSIM support optional
Dedicated GPS optional

AC Adaptor: Input: 100-240 V AC, 50/60 Hz, Output: 115.6 V DC, 7.05 A
Standard Battery: Lithium-Ion 10.8 V, 6,500 mAh (typ.), 6,300 mAh (min.)
Standard Battery Life: Approx. 10 hours (Mobile Mark™ 25)
Extended Battery Life: Approx. 20 hours with 2nd battery (Mobile Mark™ 25)
Hot-swap capability* with 2nd battery

TPM (Trusted Platform Module), TCG V2.0
Integrated hardware security lock slot
Microsoft Windows 11 Secured-core PC

345 × 272 × 32.8 mm (without protruding parts)
HD model: Approx. 2.08 kg
Full-HD Touch model: Approx. 2.22 kg

Water Resistance: IEC529 (JIS C0920) IPX3 ***
Dust Resistance: IEC529 (JIS C0920) IP5X***
Drop Resistance: MIL-STD 810H, 150 cm***
Operating Temperature: MIL-STD 810H, -29 to +60 °C***



TOUGHBOOK

For more information please visit
www.toughbook.eu

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Active Matrix colour display conforms to industry standards. Some displays may contain isolated illuminated or dark pixels as an artefact of the manufacturing process (effective pixels: minimum 99.998%). RAM capacity calculated as follows: 1 MB = 1,048,576 bytes. HDD capacity calculated as follows: 1 GB = 1,000,000,000 bytes. **TOUGHBOOK** is a brand name and registered trademark of Panasonic Corporation. Google, the Google logo, YouTube and Android are trademarks of Google Inc. Intel, the Intel logo, Intel Core, and Intel vPro are trademarks of Intel Corporation or its subsidiaries. Microsoft® and Windows® are registered trademarks of Microsoft® Corporation of the United States and/or other countries. All other brand names shown are the registered trademarks of the relevant companies. All rights reserved. All working conditions, times and figures quoted are optimum or ideal levels and may differ as a result of individual and local circumstances. Technical specifications are subject to change without notice.

TOUGHBOOK G2

* Optional

** One option exclusive possible in Top Expansion Bay Area, needs to be decided at purchase

*** One option exclusive possible in Rear Expansion Bay Area, End User replaceable

**** Tested by an independent third-party lab following MIL-STD-810H and IEC 60529, Sections 13.4, 13.6.2, 14.2.5 and 14.3

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* Optional

** One option exclusive possible in configuration port / business expansion module

*** Tested by an independent third-party lab following MIL-STD-810H and IEC 60529, Sections 13.4, 13.6.2, 14.2.5 and 14.3

TOUGHBOOK 40

* Optional

** Exclusive option, pre-configured or accessory

*** Tested by an independent third-party lab following MIL-STD-810H and IEC 60529

TOUGHBOOK 55

* Optional

** Exclusive option, pre-configured or accessory

*** Tested by an independent third-party lab following MIL-STD-810H and IEC 60529

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