

MOBILE SOLUTIONS BY PANASONIC

Transforming the way businesses work



HANDHELDS

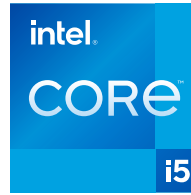


TOUGHBOOK N1

4.7" FULLY RUGGED
ANDROID HANDHELD

Mobile Computing Platform / CPU	Qualcomm® Snapdragon 660 Octa-Core 2,2 GHz
Operating System	Android™ 9 / Android™ 11
Memory & Storage	3 GB / 4GB RAM 32 GB / 64GB eMMC
Display	4.7" HD (1280 × 720 pixels) sunlight-readable display with Glove & Rain mode (minimum 500 cd/m ²) 10 finger capacitive touchscreen As default supports optional Passive and optional Active pen (For Bio-metric signatures)
Camera	Front: 5 MP Rear: 8 MP with LED Flash
Expansion Slots	MicroSDXC Memory Card: ×1
Interfaces	Headset: ×1 Micro USB 2.0: ×1 Docking connector: ×1
Connectivity	Bluetooth®: Version 5 Class 1 Wireless LAN: IEEE802.11 a/b/g/n/ac/d/h/i/k/r/v/w Voice & Data (optional): 4G LTE, HSPA+, UMTS, EDGE, GPRS, GSM Dual micro SIM (Single standby) GPS: 2 m CEP50 (±2 to 4 m), GLONASS NFC: Built-in (Type A, B, Felica, ISO 15693) 4G LTE
Power	AC Adaptor: Input: 100-240 V AC, 50/60 Hz; Output: 16 V DC, 3.75 A Standard Battery: Li-Ion 3.8 V, 3200 mAh (Warm swappable) Optional Extended Battery: Li-Ion 3.8 V, 6400 mAh (Warm swappable) Battery Life: (Standard / Extended Battery): up to 12 hours / 19 hours of continuous data access up to 27 hours / 44 hours talk time up to 700 hours / 1400 hours standby time Battery Charging Time: Full charge in approx. 2 hours with Standard Battery / approx. 4 hours with optional Extended Battery
Security Features	FIPS140-2 level-1 compliant & Built-in ARM® TrustZone®
Dimensions (W × H × D) & Weight	74 × 156 × 16.3/31 mm [2.9 × 6.1 × 0.6/1.2"] (barcode reader section) 274 g (0.60 lb)
Ruggedisation	MIL-STD 810G tested ³ Water resistance test: IEC529 (JIS C0920) IPX8 ³ Dust resistance test: IEC529 (JIS C0920) IP6X ³ Gravity drop resistance test: 210 cm drop ³ Operating temperature: -20 to +50 °C ³ 2,000 drops (1,000 tumbles), 1.0 m Raised bezel for display protection

NOTEBOOKS



TOUGHBOOK 55

14" RUGGED
CLAMSHELL NOTEBOOK

Mobile Computing Platform / CPU	Intel® Core™ i5-1145G7 vPro™ processor (1.1 up to 4.4 GHz [with Turbo Boost], 8 MB Intel® Smart Cache)
Operating System	Windows 10 Pro/Free Upgrade to Windows 11* (when available, see below)
Memory & Storage	8 GB DDR4 RAM (max. 64 GB) HD model: 256 GB NVMe OPAL SSD (max. 2 TB) [with heater] Full-HD and Full-HD Touch model: 512 GB NVMe OPAL SSD (max. 2 TB)
Display	14" Active Matrix (TFT) display HD model: (1366 × 768 pixels) Full-HD Model: IPS (1920 × 1080 pixels) (up to 1,000 cd/m ²) Full-HD Touch Model: IPS (1920 × 1080 pixels) with 10 finger capacitive touchscreen (up to 1,000 cd/m ²)
Camera	HD and Full-HD model: 2 MP with IR for Windows Hello / privacy shutter (optional) Full-HD touch model: 2 MP with IR for Windows Hello / privacy shutter
Expansion Slots	Universal Bay**: 2nd SSD, Smart Card Reader, DVD Multi Drive, Blu Ray Drive Front Expansion Slot**: 2nd Battery, Fingerprint Reader, Contactless Smart Card Reader (HF-RFID), Smart Card Reader Rear Expansion Slot**: VGA + True Serial + 4th USB 3.1, VGA + True Serial + 2nd native GLAN, VGA + True Serial + Rugged USB 2.0 **Exclusive option, pre configured or accessory
Optical drive	See Universal Bay
Interfaces	USB 3.1: ×2 Thunderbolt 4: ×1 Micro SDXC Memory Card: ×1 HDMI: ×1 Headset: ×1 DC In: ×1 Port Replicator: ×1 Dual Path Through Connector (optional): ×1
Connectivity	Bluetooth®: Version 5.1 + EDR Class 1 Intel® Wi-Fi 6 AX201 LAN: IEEE 802.3 10Base-T / IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T
Power	AC Adaptor: Input: 100-240 V AC, 50/60 Hz; Output: 15.6 V DC, 7.05 A Battery: Lithium-Ion 10.8 V, 6500 mAh (typ.), 6300 mAh (min.) Battery Life HD: Approx. 19 hours (Mobile Mark™ 2014), approx. 38 hours with optional 2nd battery (Mobile Mark™ 2014) Battery Life Full-HD / Full-HD Touch: Approx. 18 hours (Mobile Mark™ 2014), approx. 36 hours with optional 2nd battery (Mobile Mark™ 2014) Hot Swap Battery: Optional
Security Features	TPM (Trusted Platform Module), TCG V2.0 Integrated hardware security lock slot Microsoft Windows 10 Secured-core PC
Dimensions (W × H × D) & Weight	345 × 272 × 32.8 mm HD model: 2.08 kg Full HD model w/o touchscreen: 2.13 kg Full HD model with touchscreen: 2.22 kg
Options for Integration	4G LTE, GPS
Ruggedisation	MIL-STD 810H tested ³ Water resistance test: IEC529 (JIS C0920) IPX3 ³ Dust resistance test: IEC529 (JIS C0920) IP5X ³ Gravity drop resistance test: 91 cm drop ³ Operating temperature: -29 to +60 °C ³

TABLETS



TOUGHBOOK G1

10.1" FULLY RUGGED WINDOWS TABLET

TOUGHBOOK G2

10.1" FULLY RUGGED WINDOWS TABLET

Mobile Computing Platform / CPU	Intel® Core™ i5-7300U vPro™ processor {2.6 up to 3.5 GHz (with Turbo Boost), 3 MB Intel® Smart Cache}	Intel® Core™ i5-10310U vPro™ processor {1.7 up to 4.4 GHz (with Turbo Boost), 6 MB Intel® Smart Cache}
Operating System	Windows 10 Pro	Windows 10 Pro/Free Upgrade to Windows 11* (when available, see below)
Memory & Storage	8 GB RAM 256 GB SSD	16 GB DDR4 RAM (max. 32 GB) 512 GB NVMe OPAL SSD (max. 1 TB) (with heater) Quick Release SSD SKU optional
Display	10.1" Active Matrix (TFT) IPS pro next colour LCD 1920 × 1200 pixels, WUXGA (up to 800 cd/m ²) with circular polariser 10 finger capacitive touchscreen and digitiser	10.1" Active Matrix (TFT) IPS colour LCD 1920 × 1200 pixels, WUXGA (up to 1.000 cd/m ²) Anti reflection with glove and rain modes Dual touch as standard (10 finger capacitive touchscreen and Digitiser)
Camera	Front: 2 MP Rear: 8 MP with LED light	Front: 2 MP with IR for Windows Hello / privacy shutter Rear: 8 MP with LED flash
Expansion Slots	MicroSD/SDXC Memory Card: ×1 optional (configuration port)	Configuration Port**: 2nd Gigabit LAN, True Serial, USB 2.0 Type-A, 1D/2D Barcode Reader, FLIR Thermal Imaging Rear Expansion Area**: HF-RFID Reader, Smart Card Reader **Exclusive option, pre configured or accessory
Interfaces	Headset: ×1 HDMI: ×1 DC Input: ×1 USB 3.0: ×1 LAN: ×1 standard (configuration port) USB 2.0: ×1 optional (configuration port) Serial: ×1 optional (configuration port) Port Replicator: ×1 External Antenna Connector: ×1 FLIR Thermal Imaging: ×1 optional (configuration port)	DC Input: ×1 USB 3.1: ×1 USB 3.1 Type-C: ×1 LAN: ×1
Connectivity	Bluetooth®: Version 4.2 + EDR Class 1 Wireless LAN: Intel® Dual Band Wireless-AC 8265 LAN: IEEE 802.3 10Base-T / IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T optional	Bluetooth®: Version 5.1 + EDR Class 1 Intel® Wi-Fi6 AX201 LAN: IEEE 802.3 10Base-T / IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T
Power	AC Adaptor: Input: 100-240 V AC, 50/60 Hz, Output: 16 V DC, 4.06 A Battery: Li-Ion (11.1 V, 4200 mAh), user replaceable Battery Life: Approx. 11 hours (Mobile Mark™ 2014) Hot Swap Battery: Optional	AC Adaptor: Input: 100-240 V AC, 50/60 Hz, Output: 15.6 V DC, 7.05 A Battery: Li-Ion (11.4 V, 4360 mAh), user replaceable Battery Life: Approx. 12 hours (Mobile Mark™ 2014) Hot Swap Battery: Optional
Security Features	TPM (Trusted Platform Module), TCG V2.0 Integrated hardware security lock slot	TPM (Trusted Platform Module), TCG V2.0 Integrated hardware security lock slot Microsoft Windows 10 Secured-core PC
Dimensions (W × H × D) & Weight	270 × 19 × 188 mm (0.6 × 0.75 × 7.4") 1.1 kg (2.43 lb)	279 × 188 × 23.5 mm (11.0 × 7.4 × 1.0") 1.19 kg (2.63 lb)
Options for Integration	4G LTE, GPS, Smart Card Reader	4G LTE, GPS
Ruggedisation	MIL-STD 810G tested ³ Water resistance test: IEC529 (JIS C0920) IPX5 ³ Dust resistance test: IEC529 (JIS C0920) IP6X ³ Gravity drop resistance test: 180 cm drop ³ Operating temperature: -29 to +60 °C ³	MIL-STD 810H tested ³ Water resistance test: IEC529 (JIS C0920) IPX5 ³ Dust resistance test: IEC529 (JIS C0920) IP6X ³ Gravity drop resistance test: 180 cm drop ³ Operating temperature: -29 to +60 °C ³



TOUGHBOOK M1

7" FULLY RUGGED WINDOWS TABLET

Intel® Core™ i5-7Y57 vPro™ processor
{1.2 to 3.3 GHz (with Turbo Boost), 4 MB Intel® Smart Cache}

Windows 10 Pro

4 GB RAM (max. 8 GB)
128 GB SSD

7" Active Matrix (TFT) colour LCD
1280 × 800 pixels, WXGA (up to 700 cd/m²)
10 finger capacitive touchscreen

Front: 2 MP
Rear: 8 MP with LED light

MicroSD/SDXC Memory Card: ×1

Headset: ×1
DC Input: ×1
USB 3.0: ×1
Serial: ×1 (configuration port)
LAN: ×1 optional (configuration port)
2D Barcode Reader: ×1 optional (configuration port)
Smartcard Reader: ×1 optional (business expansion module)
Port Replicator: ×1
External Antenna Connector: ×1 optional
FLIR Thermal Imaging: ×1 optional (business expansion module)
Intel® RealSense™: ×1 optional (business expansion module)

Bluetooth®: Version 4.2 + EDR Class 1
Wireless LAN: Intel® Dual Band Wireless-AC 8265
LAN: IEEE 802.3 10Base-T / IEEE 802.3u 100Base-TX / IEEE 802.3ab 1000Base-T optional

AC Adaptor: Input: 100-240 V AC, 50/60 Hz, Output: 16 V DC, 4.06 A
Battery: Li-Ion (7.2 V, 3220 mAh), user replaceable
Battery Life: Approx. 8 hours (Mobile Mark™ 2014)
Hot Swap Battery: Optional via business expansion module

TPM (Trusted Platform Module), TCG V2.0
Integrated hardware security lock slot

203 × 18 × 132 mm (7.98 × 5.20 × 0.71")
540 g (1.2 lb)

4G LTE, GPS

MIL-STD 810G tested³
Water resistance test: IEC529 (JIS C0920) IPX5³
Dust resistance test: IEC529 (JIS C0920) IP6X³
Gravity drop resistance test: 180 cm drop³
Operating temperature: -29 to +63 °C³



TOUGHBOOK S1

7" LIGHTWEIGHT RUGGED ANDROID TABLET

Qualcomm® Snapdragon 660 Octa-Core 2,2 GHz

Android 10 (11 support)

4 GB LPDDR4
64 GB eMMC5.1

7.0" WXGA (1280 × 800) with AR, IPS colour LCD (up to 500 cd/m² brightness)

Front Camera 5 MP
Rear Camera 13 MP with autofocus and LED flash

MicroSD/SDXC Memory Card: ×1

USB 3.0 Type-C: ×1
Headset: ×1
DC in: via USB-C

Bluetooth®: Version 5.1 + EDR Class 1
GNSS: Integrated (GPS, GLONASS, Galileo, Beidou, QZSS) – CEP50 (±2 to 4 m)
NFC: ISO/IEC 21481 (TypeA, TypeB, FeliCa and ISO/IEC 15693)
Wi-Fi: Qualcomm® WCN3980

Extended Battery: (1 × 5580mAh)
Battery Life: Up to 7 hours / up to 14 hours*****

ARM® TrustZone® (Built-in)

193 × 131 × 16.1 mm / 18.9 mm (Grip section)

4G LTE
Barcode Reader (P)*, Barcode Reader (L)*, USB Type-A Port**
Dual-pass-through: 1 × optional**

**Pre configured

MIL-STD 810H tested³
Water resistance test: IEC529 (JIS C0920) IPX7³
Dust resistance test: IEC529 (JIS C0920) IP6X³
Gravity drop resistance test: 150cm drop³
Operating temperature: -20 to +50 °C³



TOUGHBOOK A3

10.1" FULLY-RUGGED ANDROID TABLET

Qualcomm® Snapdragon 660 Octa-Core 2,2 GHz

Android 9 (11 support)

4 GB RAM
64 GB eMMC

10.1 Active Matrix (TFT) IPS colour LCD (1920 × 1200 pixels), WUXGA (Outdoor Readable)
Anti Glare, Anti Reflection 10 finger capacitive touchscreen

Front: 5 MP
Rear: 8 MP with autofocus and LED flash

MicroSD/SDXC Memory Card: ×1

USB 3.0 Type-C (OTG, BC1.2): ×1
USB 2.0 Type-A (Host only): ×1
Headset: ×1
DC In: ×1
Docking connector

Bluetooth®: Version 5.0 Class 1
Wireless LAN: IEEE802.11 a/b/g/n/ac/d/h/i/r/k/v/w w MIMO – 2.4 GHz & 5 GHz Support
GPS: Integrated (GPS/GLONASS/Galileo/Beidou)

AC Adapter Input: 100-240 V AC, 50/60 Hz, Output: 16 V DC, 4.06 A
Slim Battery: Lithium-Ion Dual Battery (2× 3200mAh)
Extended Battery: (2× 5580mAh)
Battery Life: Up to 9 hours / up to 15 hours*****
Power Management Hot Swap

ARM® TrustZone® (Built-in)

272 × 196 × 16.4 mm (7.72 × 10.7 × 0.65")
885g (1.96lbs)

Dual Antenna Connector**: ×1
Mobile Broadband**: 4G LTE, supports 3G – Sierra EM7455
Smart Card Reader
Barcode Reader
USB 2.0 Type-A

MIL-STD 810H tested³
Drop Resistance Minimum: 150 cm****
Dust Resistance: IEC529 (JIS C0920) IP6X***
Water Resistance: IEC529 (JIS C0920) IPX5***
Operating Temperature: -20 to 50 °C****



TOUGHBOOK 33

12" FULLY RUGGED 2-IN-1 DETACHABLE WINDOWS NOTEBOOK

Mobile Computing Platform / CPU	Intel® Core™ i5-10310U vPro™ processor {1.7 up to 4.4 GHz (with Turbo Boost), 6 MB Intel® Smart Cache}
Operating System	Windows 10 Pro/Free Upgrade to Windows 11* (when available, see below)
Memory & Storage	16GB DDR4 RAM (max. 32GB) 512GB NVMe OPAL SSD (max. 1TB) (with heater)
Display	12.0" Active Matrix (TFT) colour LCD, QHD (2160 × 1440 pixels), up to 1200 cd/m ² brightness, Aspect ratio 3:2, Anti reflection with glove and rain modes Dual touch as standard (10 finger capacitive touchscreen and Digitiser)
Camera	Front: 2 MP with IR for Windows Hello / privacy shutter Rear: 8 MP with Laser AF
Expansion Slots	SD/SDXC Memory Card: ×1 SDXC (Keyboard Base)
Interfaces	Serial: ×1 (Keyboard Base), ×1 optional (Main Unit) HDMI: ×2 (Keyboard Base & Main Unit) VGA: ×1 (Keyboard Base) USB 3.1 Typy c: ×1 (Main Unit) USB 3.0: ×2 (Keyboard Base), ×1 (Main Unit) USB 2.0: ×1 (Keyboard Base), ×1 optional (Main Unit) Rugged USB: ×1 optional (Main Unit) LAN: ×2 (Keyboard Base & Main Unit) 2D Barcode Reader: ×1 optional (Main Unit) Smartcard Reader: ×1 optional (Main Unit) HF RFID: ×1 optional (Main Unit) Fingerprint Reader: ×1 optional (Main Unit) Port Replicator: ×1 (Keyboard Base) External Antenna Connector: ×1 (Keyboard Base) Headset: ×1 DC Input: ×2 (Keyboard Base & Main Unit)
Connectivity	Bluetooth®: Version 5.1 + EDR Class 1 Intel® Wi-Fi 6 AX201 LAN: IEEE 802.3 10Base-T / IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T
Power	AC Adaptor: Input: 100-240 V AC, 50/60 Hz, Output: 15.6 V DC, 7.05 A Standard Battery: Li-Ion 11.1 V, 1990 mAh ×2, user replaceable, hot swappable Extended Battery (Factory option): Li-ion 10.8 V, 4120 mAh ×2, user replaceable, hot swappable Battery Life (2-in-1 Detachable): Approx. 10 hours, approx. 20 hours with optional Extended Battery (Mobile Mark™ 2014) Battery Life (Tablet only): Approx. 11 hours, approx. 22 hours with optional Extended Battery (Mobile Mark™ 2014)
Security Features	TPM (Trusted Platform Module), TCG V2.0 Integrated hardware security lock slot Microsoft Windows 10 Secured-core PC
Dimensions (W × H × D) & Weight	2-in-1 Detachable: 313.0 × 288.4 × 46.1 mm (12.3 × 11.4 × 1.8") 2.79 kg (6.2 lb) Tablet only version: 308.0 × 243.6 × 21.6 mm (12.1 × 9.6 × 0.9") 1.56 kg (3.5 lb)
Options for Integration	4G LTE, GPS
Ruggedisation	MIL-STD 810G tested ³ Water resistance test: IEC529 (JIS C0920) IPX5 ³ Dust resistance test: IEC529 (JIS C0920) IP6X ³ Gravity drop resistance test: 150 cm drop ³ Operating temperature: -29 to +60 °C ³



TOUGHBOOK 20

10.1" FULLY RUGGED 2-IN-1 DETACHABLE WINDOWS NOTEBOOK



Intel® Core™ i5-7Y57 vPro™ processor
{1.2 to 3.3 GHz (with Turbo Boost), 4 MB Intel® Smart Cache}

Windows 10 Pro

8 GB RAM (4 GB or 16 GB project based)
256 GB SSD

10.1 Active Matrix (TFT) IPS colour LCD, 1920 × 1200 pixels,
WUXGA (up to 800 cd/m²) Anti Glare, Anti Reflection
10 finger capacitive touchscreen
Dual touch model with Digitiser optional

Front: 2 MP
Rear: 8 MP

SD/SDXC Memory Card: ×1 SDXC (Keyboard Base),
×1 Micro-SDXC (Main Unit)

Serial: ×1 (Keyboard Base), ×1 optional (Main Unit)
HDMI: ×2 (Keyboard Base & Main Unit)
VGA: ×1 (Keyboard Base)
Headset: ×1
DC Input: ×2 Jack (Keyboard Base & Main Unit)
USB 2.0: ×1 (Keyboard Base), optional ×1 (Main Unit)
USB 3.0: ×2 (Keyboard Base), ×1 (Main Unit)
LAN: ×2 (Keyboard Base & Main Unit)
2D Barcode Reader: optional ×1 (Main Unit)
Smartcard Reader: optional ×1 (Main Unit)
HF RFID: optional ×1 (Main Unit)
Fingerprint Reader: ×1 optional (Main Unit)
Port Replicator: ×1
External Antenna Connector: ×2 (Keyboard Base & Main Unit)

Bluetooth®: Version 4.2 Class 1
Wireless LAN Intel® Dual Band Wireless-AC 8265
LAN IEEE 802.3 10Base-T / IEEE 802.3u 100Base-TX / IEEE 802.3ab 1000Base-T

AC Adaptor: Input: 100-240 V AC, 50/60 Hz, Output: 16 V DC, 4.06 A
Battery: Li-Ion (11.4 V, 2600 mAh), user replaceable
Battery Life: Tablet approx. 8.5 hours (Mobile Mark™ 2014),
approx. 17 hours with 2nd battery in Keyboard Base (Mobile Mark™ 2014)
Hot Swap Battery: Standard

TPM (Trusted Platform Module), TCG V2.0
Integrated hardware security lock slot

272 × 233 × 33.5 mm (10.7 × 9.17 × 1.32") (Main Unit + Keyboard Base)
272 × 196 × 16.4 mm (10.7 × 7.7 × 0.65") (Main Unit)
1.89 kg (4.2 lb) (Main Unit + Keyboard Base) 950 g (2.1 lb) (Main Unit)

4G LTE, GPS

MIL-STD 810G tested³
Water resistance test: IEC529 (JIS C0920) IPX5³
Dust resistance test: IEC529 (JIS C0920) IP6X³
Gravity drop resistance test: 120 cm drop³
Operating temperature: -29 to +60 °C³



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: 1MB = 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, Intel vPro, Core Inside and vPro Inside are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries. 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.

* The Windows 11 upgrade will be delivered to qualifying devices late 2021 into 2022. Timing will vary by device. Certain features require specific hardware (see aka.ms/windows11-spec).

** Optional

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

**** Tested by Panasonic

***** Battery life measurement conditions: Wireless LAN, connection enabled, continuous access to the server while browsing; swipe every 1 second; page change every 20 seconds.

*1 The transmitter antennas of this model are not located within 20cm of a person during normal use.

¹ Tested in Panasonic Factory.

² The shock resistance, pressure resistance, and splashproof functions are not a guarantee against damage or malfunction.

³ Tested by an independent third party lab following MIL-STD 810G, MIL-STD 810H and IEC 60529.

⁴ Project based. Only one interface can be selected.

⁵ Safety Certifications list available at www.toughbook.eu.



For more information please visit
www.toughbook.eu

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