



Panasonic CONNECT

TOUGHBOOK

TOUGH is
setting the
performance standard

Explore our range of rugged devices

 Windows 11

intel.
CORE
vPRO
i7

Tablets



TOUGHBOOK G2

10.1" fully rugged
Windows tablet



TOUGHBOOK 33

12" fully rugged
Windows tablet

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 11 Pro 64-bit Windows 10 Pro 64-bit Downgrade Model optional	
Memory & Storage	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 colour LCD 1,920 × 1,200 pixels, WUXGA (up to 1,000 cd/m²) 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 LED flash	
Expansion Slots	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	
Interfaces	DC Input: x1 USB 3.1: x1 USB 3.1 Type-C: x1 LAN: x1	Serial: x1 optional HDMI: x1 USB 3.1 Typy c: x1 USB 3.0: x1 USB 2.0: x1 optional Rugged USB: x1 optional LAN: x1 2D Barcode Reader: x1 optional Smartcard Reader: x1 optional HF RFID: x1 optional Fingerprint Reader: x1 optional Headset: x1 DC Input: x1
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: Li-Ion (11.4 V, 4,360 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 Microsoft Windows 11 Secured-core PC	
Dimensions (W × H × D) & Weight	279 × 188 × 23.5 mm (without protruding parts) 1.19 kg	
Options for Integration	4G LTE with eSIM support, 5G with eSIM support, GPS	
Ruggedisation	MIL-STD 810H 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 +60 °C³	



TOUGHBOOK S1

7" lightweight rugged
Android tablet



TOUGHBOOK A3

10.1" fully rugged
Android tablet

Mobile Computing Platform / CPU	Qualcomm® Snapdragon 660 Octa-Core 2.2 GHz	Qualcomm® Snapdragon 660 Octa-Core 2.2 GHz
Operating System	Android™ 11	Android™ 11
Memory & Storage	4 GB LPDDR4 64 GB eMMC5.1	4 GB RAM 64 GB eMMC
Display	7.0" WXGA (1,280 × 800 pixels) with AR, IPS colour LCD (up to 700 cd/m² brightness)	10.1 Active Matrix (TFT) IPS colour LCD (1,920 × 1,200 pixels) (up to 950 nits brightness), WUXGA (Outdoor Readable) Anti Glare, Anti Reflection10 finger capacitive touchscreen
Camera	Front Camera 5 MP Rear Camera 13 MP with autofocus and LED flash	Front: 5 MP Rear: 8 MP with autofocus and LED flash
Expansion Slots	MicroSD/SDXC Memory Card: ×1	MicroSD/SDXC Memory Card: ×1
Interfaces	USB 3.0 Type-C: ×1 Headset: ×1 DC in: via USB-C	USB 3.0 Type-C (OTG, BC1.2): ×1 USB 2.0 Type-A (Host only): ×1 Headset: ×1 DC In: ×1 Docking connector
Connectivity	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	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)
Power	Extended Battery: 1× 5,580 mAh (typ.); 5,380 mAh (min.) Battery Life: Up to 14 hours***	AC Adapter Input: 100-240 V AC, 50/60 Hz, Output: 16 V DC, 4.06 A Slim Battery: Dual Battery 2x 3,200 mAh (typ.); 2x 3,100 mAh (min.) Extended Battery: 2x 5,580 mAh (typ.); 5,380 mAh (min.) Battery Life: Up to 9 hours / up to 15 hours*** Power Management Hot Swap
Security Features	ARM® TrustZone® (Built-in)	ARM® TrustZone® (Built-in)
Dimensions (W × H × D) & Weight	193 × 131 × 16.1 mm / 18.9 mm (Grip section) (without protruding parts) 505 g	272 × 196 × 16.4 mm (without protruding parts) 885 g
Options for Integration	4G LTE, Barcorde Reader (P)*, Barcorde Reader (L)*, USB Type-A Port* Dual-pass-through: 1× optional* *Pre configured	Dual Antenna Connector*: ×1, Mobile Broadband*: 4G LTE, supports 3G – Sierra EM7455 Smart Card Reader, Barcode Reader, USB 2.0 Type-A
Ruggedisation	MIL-STD 810H tested³ Water resistance test: IEC529 (IIS C0920) IPX7³ Dust resistance test: IEC529 (IIS C0920) IP6X³ Gravity drop resistance test: 150 cm drop³ Operating temperature: -20 to +50 °C³	MIL-STD 810H tested³ Drop Resistance Minimum: 150 cm* Dust Resistance: IEC529 (IIS C0920) IP6X* Water Resistance: IEC529 (IIS C0920) IPX5* Operating Temperature: -20 to 50 °C*

Handhelds



TOUGHBOOK N1 Flat/Tactical

4.7" fully rugged
Android handheld



TOUGHBOOK N1 Angle

4.7" fully rugged
Android handheld

Mobile Computing Platform / CPU	Qualcomm® Snapdragon 660 Octa-Core 2.2 GHz	Qualcomm® Snapdragon 660 Octa-Core 2.2 GHz
Operating System	Android™ 11	Android™ 11
Memory & Storage	4 GB, 64 GB	4 GB, 64 GB
Display	4.7" HD (1,280 × 720 pixels) sunlight-readable display with Glove & Rain mode (up to 550 nits brightness) 10 finger capacitive touchscreen As default supports optional Passive and optional Active pen (For Bio-metric signatures)	4.7" HD (1,280 × 720 pixels) sunlight-readable display with Glove & Rain mode (up to 550 nits brightness) 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	Front: 5 MP Rear: 8 MP with LED Flash
Expansion Slots	MicroSDXC Memory Card: x1	MicroSDXC Memory Card: x1
Interfaces	Headset: x1 Micro USB 2.0: x1 Docking connector: x1	Headset: x1 Micro USB 2.0: x1 Docking connector: x1
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	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, 3,200 mAh (typ.); 3,100 mAh (min.) (Warm swappable) Battery Life: Up to 12 hours Battery Charging Time: Full charge in approx. 2 hours with Standard Battery	AC Adaptor: Input: 100-240 V AC, 50/60 Hz; Output: 16 V DC, 3.75 A Standard Battery: Li-Ion 3.8 V, 3,200 mAh (typ.); 3,100 mAh (min.) (Warm swappable) Optional Extended Battery: Li-Ion 3.8 V, 6,400 mAh (typ.); 6,200 mAh (min.) (Warm swappable) Battery Life: (Standard / Extended Battery): up to 12 hours / 19 hours 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®	FIPS140-2 level-1 compliant & Built-in ARM® TrustZone®
Dimensions (W × H × D) & Weight	74 × 156 × 16.3 mm 255 g	74 × 156 × 16.3/31 mm (barcode reader section) 274 g
Options for Integration		
Ruggedisation	MIL-STD 810G tested ³ Water resistance test: IEC529 (IIS C0920) IPX8 ³ Dust resistance test: IEC529 (IIS 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	MIL-STD 810G tested ³ Water resistance test: IEC529 (IIS C0920) IPX8 ³ Dust resistance test: IEC529 (IIS 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

Laptops



TOUGHBOOK G2

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



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)	Intel® Core™ i5-10310U vPro® processor (1.7 up to 4.4 GHz (with Turbo Boost), 6 MB Intel® Smart Cache)
Operating System	Windows 11 Pro 64-bit Windows 10 Pro 64-bit Downgrade Model optional	Windows 11 Pro 64-bit Windows 10 Pro 64-bit Downgrade Model optional
Memory & Storage	16 GB DDR4 RAM (max. 32 GB) 512 GB NVMe OPAL SSD (max. 1 TB) (with heater) Quick Release SSD SKU optional	16 GB DDR4 RAM (max. 32 GB) 512 GB NVMe OPAL SSD (max. 1 TB) (with heater)
Display	10.1" Active Matrix (TFT) IPS colour LCD 1,920 × 1,200 pixels, WUXGA (up to 1,000 cd/m²) Anti reflection with glove and rain modes Dual touch as standard (10 finger capacitive touchscreen and Digitiser)	12.0" Active Matrix (TFT) colour LCD, QHD (2,160 × 1,440 pixels), up to 1,200 cd/m² 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 LED flash	Front: 2 MP with IR for Windows Hello / privacy shutter Rear: 8 MP with Laser AF
Expansion Slots	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	SD/SDXC Memory Card: x1 SDXC (Keyboard Base)
Interfaces	DC Input: x1 USB 3.1: x1 USB 3.1 Type-C: x1 LAN: x1	Serial: x1 (Keyboard Base), x1 optional (Main Unit) HDMI: x2 (Keyboard Base & Main Unit) VGA: x1 (Keyboard Base) USB 3.1 Typy c: x1 (Main Unit) USB 3.0: x2 (Keyboard Base), x1 (Main Unit) USB 2.0: x1 (Keyboard Base), x1 optional (Main Unit) Rugged USB: x1 optional (Main Unit) LAN: x2 (Keyboard Base & Main Unit) 2D Barcode Reader: x1 optional (Main Unit) Smartcard Reader: x1 optional (Main Unit) HF RFID: x1 optional (Main Unit) Fingerprint Reader: x1 optional (Main Unit) Port Replicator: x1 (Keyboard Base) External Antenna Connector: x1 (Keyboard Base) Headset: x1 DC Input: x2 (Keyboard Base & Main Unit)
Connectivity	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	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: 15.6 V DC, 7.05 A Battery: Li-Ion (11.4 V, 4,360 mAh), user replaceable Battery Life: Approx. 12 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 Standard Battery: Li-Ion 11.1 V, 1,990 mAh x2, user replaceable, hot swappable Extended Battery (Factory option): Li-ion 10.8 V, 4,120 mAh x2, 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 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 (without protruding parts) 1.19 kg	313.0 × 288.4 × 46.1 mm (without protruding parts) 2.79 kg
Options for Integration	4G LTE with eSIM support, 5G with eSIM support, GPS	4G LTE with eSIM support, GPS
Ruggedisation	MIL-STD 810H 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 +60 °C³	MIL-STD 810G tested³ Water resistance test: IEC529 (JIS C0920) IPX5³ Dust resistance test: IEC529 (JIS C0920) IP6X³ Gravity drop resistance test: 150 cm drop³ Operating temperature: -29 to +60 °C³



TOUGHBOOK 40

14" fully rugged
clamshell notebook

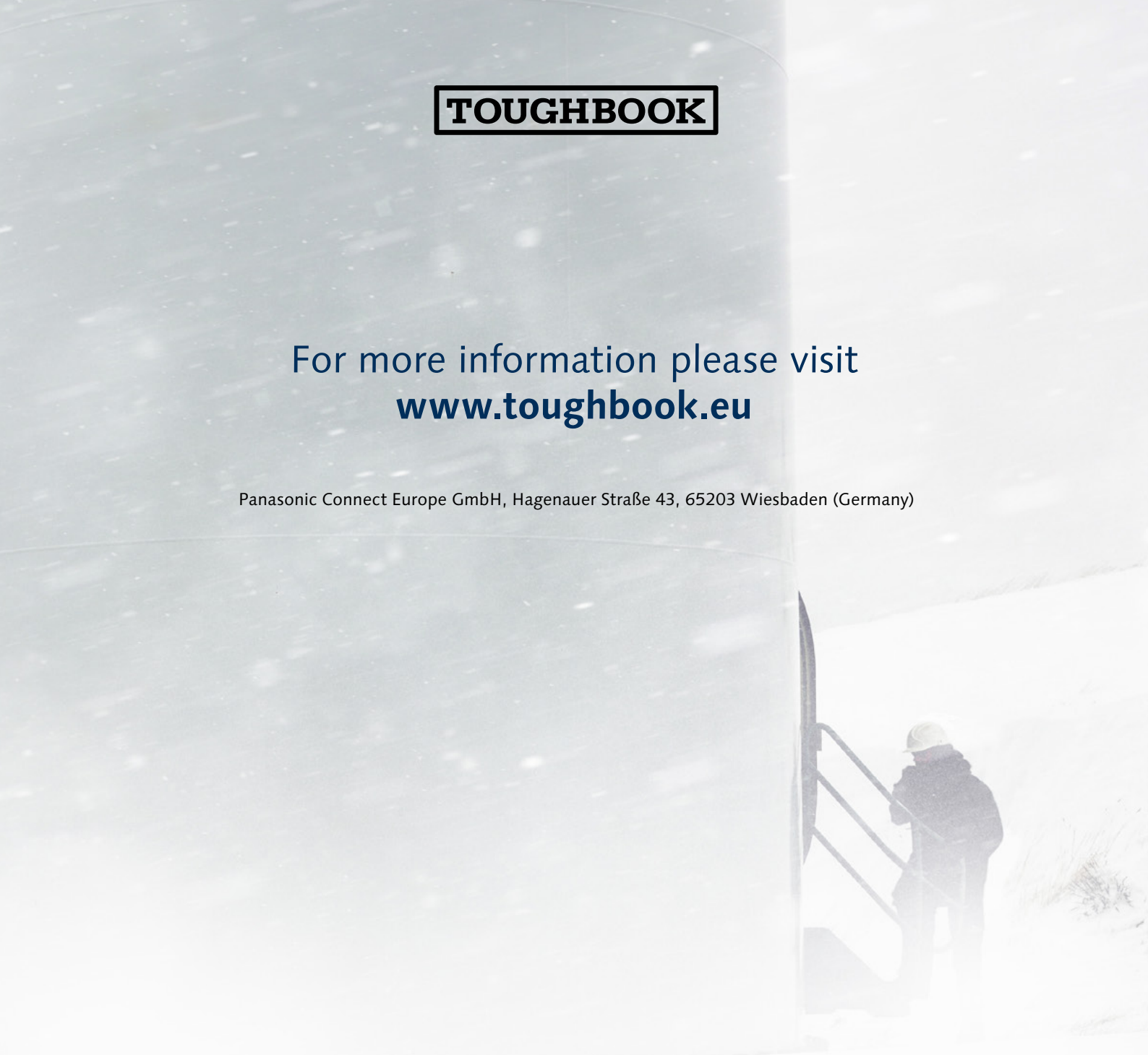


TOUGHBOOK 55

14" rugged
clamshell notebook

Mobile Computing Platform / CPU	Intel® Core™ i5-1145G7 vPro® processor (1.1 GHz up to 4.4 GHz) or Intel® Core™ i7-1185G7 vPro® processor (1.2 GHz up to 4.8 GHz)			Intel® Core™ i5-1145G7 vPro® processor {1.1 up to 4.4 GHz (with Turbo Boost), 8 MB Intel® Smart Cache}		
Operating System	Windows 11 Pro 64-bit Windows 10 Pro 64-bit Downgrade Model optional			Windows 11 Pro 64-bit Windows 10 Pro 64-bit Downgrade Model optional		
Memory & Storage	16 GB DDR4 RAM (max. 64 GB) 512 GB NVMe OPAL SSD (max. 2 TB) (with heater)			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) IPS colour LCD 1,920 × 1,080 pixels, Full-HD (up to 1,200 cd/m²) Anti reflection with Auto glove and rain modes 10 finger capacitive touchscreen			14" Active Matrix (TFT) display HD model: (1,366 × 768 pixels) Full-HD Model: IPS (1,920 × 1,080 pixels) (up to 1,000 cd/m²) Full-HD Touch Model: IPS (1,920 × 1,080 pixels) with 10 finger capacitive touchscreen (up to 1,000 cd/m²)		
Camera	5 MP with IR / privacy shutter (Windows Hello compliant) optional			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	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 Palm Rest Expansion Area* Fingerprint reader (Windows Hello) Fingerprint reader (Windows Hello, Multi-user authentication) Contactless Smart Card Reader			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		
Interfaces	USB 3.2 Gen 1 Type-A: ×2 Thunderbolt 4: ×1 Micro SDXC Memory Card: ×1 HDMI: ×1	Headset: ×1 DC In: ×1 Port Replicator: ×1 Quad Path Through Connector: ×1		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® 5.1 Class 1 Wireless LAN Intel® Wi-Fi6 AX201 Mobile Broadband* 4G LTE, EM7690. eSIM support 5G, EM9190. eSIM support in Summer 2022 Global Positioning* u-blox NEO-M8J (supports GPS, GLONASS, Beidou, Galileo)			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 Adapter Input: 100-240 V AC, 50/60 Hz, Output: 15.6 V DC, 7.05 A Battery Lithium-Ion 10.8 V, 6,500 mAh (typ.), 6,300 mAh (min.) Battery Life Approx. 18 hours (Mobile Mark™ 2014) Approx. 36 hours with 2nd battery (Mobile Mark™ 2014) Power Management Standby function, ACPI BIOS Hot Swap* With 2nd Battery			AC Adaptor: Input: 100-240 V AC, 50/60 Hz, Output: 15.6 V DC, 7.05 A Battery: Lithium-Ion 10.8 V, 6,500 mAh (typ.), 6,300 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 2.0 Password security 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	354 × 293 × 54.4 mm (without protruding parts) 3.375 kg			345 × 272 × 32.8 mm (without protruding parts) 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 with eSIM support, 5G with eSIM support, GPS			4G LTE with eSIM support, GPS		
Ruggedisation	MIL-STD 810H tested3 Water resistance test: IEC529 (JIS C0920) IPX63 Dust resistance test: IEC529 (JIS C0920) IP6X3 Gravity drop resistance test: 180 cm drop3 Operating temperature: -29 to +60 °C3			MIL-STD 810H tested3 Water resistance test: IEC529 (JIS C0920) IPX33 Dust resistance test: IEC529 (JIS C0920) IP5X3 Gravity drop resistance test: 91 cm drop3 Operating temperature: -29 to +60 °C3		





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.

* Exclusive option, pre configured or accessory.

** 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.

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