

MOBILE SOLUTIONS BY PANASONIC

Transforming the way businesses work



NOTEBOOKS



TOUGHBOOK 55

14" SEMI RUGGED CLAMSHELL NOTEBOOK



TOUGHBOOK 54

14" SEMI RUGGED CLAMSHELL NOTEBOOK



Mobile Computing Platform / CPU	Intel® Core™ i5-8365U vPro™ processor {1.6 up to 4.1 GHz (with Turbo Boost), 6 MB Intel® Smart Cache}	Intel® Core™ i5-7300U vPro™ processor {2.6 up to 3.5 GHz (with Turbo Boost), 3 MB Intel® Smart Cache}
Operating System	Windows 10 Pro 64-bit	Windows 10 Pro
Memory & Storage	8 GB RAM (max. 64 GB), 256 GB SSD	Entry model: 4 GB RAM (max. 16 GB), 500 GB HDD Mid model: 4 GB RAM (max. 16 GB), 256 GB SSD Premium model: 8 GB RAM (max. 16 GB), 256 GB SSD
Display	14" Active Matrix (TFT) display Entry model: HD (1366 × 768 pixels) Mid model: Full HD IPS (1920 × 1080 pixels) [up to 1,000 cd/m ²] Premium model: Full HD IPS (1920 × 1080 pixels) with 10 finger capacitive touchscreen (up to 1,000 cd/m ²)	14" Active Matrix (TFT) display Entry model: HD (1366 × 768 pixels) Mid model: Full HD IPS (1920 × 1080 pixels) Premium model: Full HD IPS (1920 × 1080 pixels) with 10 finger capacitive touchscreen (up to 1,000 cd/m ²)
Camera	2 MP with IR / privacy shutter (Windows Hello compliant) [optional]	Front: 2 MP optional
Expansion Slots	Universal Bay**: discrete GPU (AMD Radeon ProWX), 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 ***Exclusive option, pre configured	SD/SDXC Memory Card: ×1 RAM Module: ×2, DDR3L 200-pin SO-DIMM, one slot occupied Config Area: DVD Multi Drive (as standard) or PC Card (Type I or Type II) or 2nd battery (6 cell) or Smart Card Reader
Optical drive	N/A	DVD Multi Drive (as standard, in the Config area)
Interfaces	USB 3.1: ×2 USB 3.1 type C PD: ×1 Micro SDXC Memory Card: ×1 HDMI: ×1 Headset: ×1 DC In: ×1 Port Replicator: ×1 Dual Path Through Connector [optional]: ×1	USB 3.0: ×3 HDMI: ×1 Serial: ×1 VGA: ×1 LAN: ×1 standard, ×1 optional (exclusive option at configuration port) Headset: ×1 DC Input: ×1 jack Port Replicator: ×1 USB 2.0: ×1 (exclusive option at configuration port) Dedicated GPS: ×1 (exclusive option at configuration port) Rugged USB 2.0: ×1 (exclusive option at configuration port) External Antenna Connector: ×1 optional
Connectivity	Bluetooth®: 5.0 Wireless LAN: Intel® Dual Band Wireless-AC 9560 LAN: IEEE 802.3 10Base-T / IEEE 802.3u 100Base-TX / IEEE 802.3ab 1000Base-T [2nd GLAN optional]	Bluetooth®: Version 4.1 + 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
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. 20 hours (Mobile Mark™ 2014), approx. 40 hours with optional 2nd battery (Mobile Mark™ 2014) Battery Life Full-HD / Full-HD Touch: Approx. 19 hours (Mobile Mark™ 2014), approx. 38 hours with optional 2nd battery (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 6 cell Battery Life: Approx. 10 hours (Mobile Mark™ 2014), approx. 17 hours (with optional 2nd battery) Hot Swap Battery: Optional
Security Features		TPM (Trusted Platform Module), TCG V2.0 Integrated hardware security lock slot
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	345 × 272 × 39.0 mm (13.6 × 10.7 × 1.54"), with extended cover HD model: 1.99 kg (4.39 lb) Full HD model w/o touchscreen: 1.9 kg (4.19 lb) Full HD model with touchscreen: 2.1 kg (4.63 lb)
Options for Integration		4G LTE, GPS, HF RFID, Fingerprint Reader, Smart Card Reader, Bridge Battery Dual Pass Through Antenna
Ruggedisation	MIL-STD 810H certified ⁴ Water resistance: IPX3 ⁴ Dust resistance: IP5X ⁴ Gravity drop resistance: 91 cm ⁴ Operating temperature: -20 to +60 °C ⁴	MIL-STD 810G certified ¹ Water resistance test: IEC529 (JIS C0920) IPX1 ⁴ Dust resistance test: IEC529 (JIS C0920) IP5X ⁴ Gravity drop resistance test: 76 cm ¹ Operating temperature: -10 to +50 °C ¹

HANDHELDS



TOUGHBOOK T1

5" FULLY RUGGED
ANDROID HANDHELD

TOUGHBOOK N1

4.7" FULLY RUGGED
ANDROID HANDHELD

Mobile Computing Platform / CPU	Qualcomm® MSM8909 1.1 GHz Quad Core	Qualcomm® SDM660-2 64-bit 2.2 GHz x4 + 1.8 GHz x4 Octa Core
Operating System	Android™ 8.1	Android™ 8.1
Memory & Storage	2 GB RAM 16 GB eMMC	3 GB RAM 32 GB eMMC
Display	5" HD (1280 × 720 pixels) sunlight-readable display with Glove & Rain mode (up to 420 cd/m ²) 10 finger capacitive touchscreen	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	Rear: 8 MP with LED light	Front: 5 MP Rear: 8 MP with LED Flash
Expansion Slots	MicroSD/SDXC 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 4.2 Class 1 Wireless LAN: IEEE802.11 a/b/g/n/d/h/i/r Voice & Data (optional): 4G LTE, HSPA+, UMTS, EDGE, GPRS, GSM Dual micro SIM (Single standby) GPS: 2m CEP50 (±2 to 4 m), GLONASS NFC: Built-in (Type A, B, Felica, ISO 15693)	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)
Power	AC Adaptor: Input: 100-240 V AC, 50/60 Hz; Output: 5 V DC, 1.8 A USB Standard Battery: Li-Ion 3.8 V, 3200 mAh (Warm swappable) Battery Life: up to 12 hours continuous data access Battery Charging Time: Full charge in approx. 2.5 hours with Cradle / approx. 4 hours via USB cable	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	Built-in ARM® TrustZone®	FIPS140-2 level-1 compliant & Built-in ARM® TrustZone®
Dimensions (W × H × D) & Weight	75 × 154 × 13.1/17.5 mm (3.0 × 6.1 × 0.5/0.7") (barcode reader section) 230 g (0.51 lb)	74 × 156 × 16.3/31 mm (2.9 × 6.1 × 0.6/1.2") (barcode reader section) 274 g (0.60 lb)
Options for Integration	4G LTE	4G LTE
Ruggedisation	MIL-STD 810G Water resistance test: IEC529 [JIS C0920] IPX8 ¹ Dust resistance test: IEC529 [JIS C0920] IP6X ¹ Gravity drop resistance test: 150 cm drop ¹ Operating temperature: -10 to +50 °C ¹ 1,000 drops (500 tumbles), 1.0 m	MIL-STD 810G certified ⁴ Water resistance test: IEC529 [JIS C0920] IPX8 ⁴ Dust resistance test: IEC529 [JIS C0920] IP6X ⁴ Gravity drop resistance test: 210 cm drop ⁴ Operating temperature: -20 to +50 °C ⁴ 2,000 drops (1,000 tumbles), 1.0 m Raised bezel for display protection

TABLETS



TOUGHBOOK G1

10.1" FULLY RUGGED WINDOWS TABLET



TOUGHBOOK M1

7" 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™ i5-7Y57 vPro™ processor {1.2 to 3.3 GHz (with Turbo Boost), 4 MB Intel® Smart Cache} (Standard Model) or Intel® Celeron® N4100 processor {1.1 to 2.4 GHz (with Turbo Boost), 4 MB Cache} (Value Model)
Operating System	Windows 10 Pro	Windows 10 Pro
Memory & Storage	8 GB RAM 256 GB SSD	4 GB RAM (max. 8 GB), 128 GB SSD (Standard Model) or 4 GB RAM (max. 4 GB), 128 GB SSD (Value Model)
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	7" Active Matrix (TFT) colour LCD 1280 × 800 pixels, WXGA (up to 700 cd/m ²) 10 finger capacitive touchscreen
Camera	Front: 2 MP Rear: 8 MP with LED light	Front: 2 MP Rear: 8 MP with LED light
Expansion Slots	MicroSD/SDXC Memory Card: ×1 optional (configuration port)	MicroSD/SDXC Memory Card: ×1
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)	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) UHF RFID: ×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)
Connectivity	Bluetooth®: Version 4.1 + 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 4.1 + 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
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: 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
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
Dimensions (W × H × D) & Weight	270 × 19 × 188 mm (0.6 × 0.75 × 7.4") 1.1 kg (2.43 lb)	203 × 18 × 132 mm (7.98 × 5.20 × 0.71") 540 g (1.2 lb)
Options for Integration	4G LTE, GPS, Smart Card Reader	4G LTE, GPS
Ruggedisation	MIL-STD 810G certified ⁴ Water resistance test: IEC529 [JIS C0920] IPX5 ⁴ Dust resistance test: IEC529 [JIS C0920] IP6X ⁴ Gravity drop resistance test: 180 cm drop ⁴ Operating temperature: -29 to +60 °C ⁴	MIL-STD 810G certified ⁴ Water resistance test: IEC529 [JIS C0920] IPX5 ⁴ Dust resistance test: IEC529 [JIS C0920] IP6X ⁴ Gravity drop resistance test: 180 cm drop ⁴ Operating temperature: -29 to +60 °C ⁴



TOUGHBOOK L1

7" FULLY RUGGED
ANDROID TABLET

Mobile Computing Platform / CPU	Qualcomm® MSM8909 1.1 GHz Quad Core
Operating System	Android™ 8.1
Memory & Storage	2 GB RAM 16 GB eMMC
Display	7" HD (1280 × 720 pixels) sunlight-readable display with Glove & Rain mode (up to 350 cd/m ²) 10 finger capacitive touchscreen
Camera	Rear: 8 MP with LED light
Expansion Slots	MicroSD/SDXC Memory Card: ×1
Interfaces	Headset: ×1 Micro USB 2.0: ×1 Docking connector: ×1 2D Barcode Reader: ×1 landscape optional
Connectivity	Bluetooth®: Version 4.2 Class 1 Wireless LAN: IEEE802.11 a/b/g/n/d/h/i/r 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)
Power	AC Adaptor: Input: 100-240 V AC, 50/60 Hz, Output: 5 V DC, 1.8 A USB Standard Battery: Li-Ion 3.8 V, 3200 mAh (Warm swappable) Battery Life: up to 12 hours continuous data access Battery Charging Time: Full charge in approx. 2.5 hours with Cradle / approx. 4 hours via USB cable
Security Features	Built-in ARM® TrustZone®
Dimensions (W × H × D) & Weight	193 × 131 × 13/30 mm (barcode reader option) (7.6 × 5.2 × 0.5") 480 g (1.06 lb)
Options for Integration	4G LTE
Ruggedisation	MIL-STD 810G Water resistance test: IEC529 [JIS C0920] IPX7 ¹ Dust resistance test: IEC529 [JIS C0920] IP6X ¹ Gravity drop resistance test: 150 cm drop ¹ Operating temperature: -10 to +50 °C ¹



TOUGHBOOK 33

12" FULLY RUGGED 2-IN-1
DETACHABLE NOTEBOOK

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}
Operating System	Windows 10 Pro
Memory & Storage	8 GB RAM (4 GB or 16 GB project based) 256 GB SSD
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 Rear: 8 MP
Expansion Slots	SD/SDXC Memory Card: ×1 SDXC (Keyboard), ×1 Micro-SDXC (Tablet)
Interfaces	Serial: ×1 (Keyboard Base), ×1 optional (Main Unit) HDMI: ×2 (Keyboard Base & Main Unit) VGA: ×1 (Keyboard Base) 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 4.1 Class 1 WLAN: Intel® Dual Band Wireless-AC 8265 LAN (Tablet and Keyboard): 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
Dimensions (W × H × D) & Weight	2-in-1 Detachable: 313.0 × 288.4 × 46.1 mm (12.3 × 11.4 × 1.8"), 2.761 kg (6.1 lb) Tablet only version: 308.0 × 243.6 × 21.6 mm (12.1 × 9.6 × 0.9"), 1.527 kg (3.4 lb)
Options for Integration	4G LTE, GPS
Ruggedisation	MIL-STD 810G certified ⁴ Water resistance test: IEC529 [JIS C0920] IPX5 ⁴ Dust resistance test: IEC529 [JIS C0920] IP6X ⁴ Gravity drop resistance test: 150 cm drop ⁴ Operating temperature: -29 to +60 °C ⁴



TOUGHBOOK 20

10.1" FULLY RUGGED 2-IN-1
DETACHABLE NOTEBOOK



TOUGHBOOK XZ6

12" BUSINESS RUGGED 2-IN-1
DETACHABLE NOTEBOOK

Mobile Computing Platform / CPU	Intel® Core™ i5-7Y57 vPro™ processor {1.2 to 3.3 GHz (with Turbo Boost), 4 MB Intel® Smart Cache}	Intel® Core™ i5-7300U vPro™ processor {2.6 up to 3.5 GHz (with Turbo Boost), 3 MB Intel® Smart Cache}
Operating System	Windows 10 Pro	Windows 10 Pro
Memory & Storage	8 GB RAM (4 GB or 16 GB project based) 256 GB SSD	8 GB RAM (4 GB or 16 GB project based) 256 GB SSD
Display	10.1 Active Matrix (TFT) IPS colour LCD, 1920 × 1200 pixels, WUXGA (up to 800 cd/m ²) Anti Glare, Anti Reflection 10 finger capacitive touchscreen Dual touch model with Digitiser optional	12.0" Active Matrix (TFT) colour LCD, QHD (2160 × 1440 pixels), and Anti Reflection screen 10 finger capacitive multi-touch with optional Active pen
Camera	Front: 2 MP Rear: 8 MP	Front: 2 MP with IR for Windows Hello Rear: 8 MP with LED light
Expansion Slots	SD/SDXC Memory Card: ×1 SDXC (Keyboard Base), ×1 Micro-SDXC (Main Unit)	SDXC Memory Card (UHS-I / UHS-II): ×1 (Keyboard Base)
Interfaces	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)	USB 3.0: ×3 (Keyboard Base) LAN: ×1 (Keyboard Base) VGA: ×1 (Keyboard Base) HDMI: ×1 (Keyboard Base) Headphone: ×1 (Main Unit) USB 3.1 (Gen1) Type-CTM: ×1 (Main Unit)
Connectivity	Bluetooth®: Version 4.1 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	Bluetooth®: Version 4.1 Class 1 Wireless LAN: Intel® Dual Band Wireless-AC 8265 LAN (Keyboard Base): 1000Base-T / 100Base-TX / 10Base-T
Power	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	AC Adaptor: Input: 100-240 V AC, 50/60 Hz, Output: 16 V DC, 4.06 A Main unit battery (Built-in): 4-cell battery, Li-Ion 7.6 V, 3540 mAh Keyboard Base Battery (End-user removable, Hot swap): 4-cell battery, Li-Ion 7.6 V, 5200 mAh 2-in-1 Detachable Battery Life: Approx. 14 hours (Mobile Mark™ 2014) Tablet only Battery Life: Approx. 6.5 hours (Mobile Mark™ 2014)
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
Dimensions (W × H × D) & Weight	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)	2-in-1 Detachable: 288.5 × 223.7 × 22 mm (11.36 × 8.80 × 0.87"), approx. 1.18 kg (2.60 lb) Tablet only: 286.5 × 206.2 × 9.5 mm (11.28 × 8.12 × 0.37"), approx. 640 g (1.41 lb)
Options for Integration	4G LTE, GPS	4G LTE
Ruggedisation	MIL-STD 810G certified ⁴ Water resistance test: IEC529 (JIS C0920) IPX5 ⁴ Dust resistance test: IEC529 (JIS C0920) IP6X ⁴ Gravity drop resistance test: 120 cm drop ⁴ Operating temperature: -29 to +60 °C ⁴	Passes a 76 cm free-fall test ³ 100 kgf pressurised vibration test ³



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.

¹Tested in Panasonic Factory.

²Config. A: 1x PC Card Type I or II + 1x ExpressCard; Config. B: 2x PC Card Type I or II, no ExpressCard.

³The shock resistance, pressure resistance, and splashproof functions are not a guarantee against damage or malfunction.

⁴Tested by an independent third party lab following MIL-STD 810G, MIL-STD 810H and IEC 60529.

⁵Project based. Only one interface can be selected.

⁶Safety Certifications list available at www.toughbook.eu.



For more information please visit
www.toughbook.eu

Mobile Solutions Business Division – Europe (MSBDEU), Panasonic System Communications Company Europe (PSCEU),
Panasonic Marketing Europe GmbH, Hagenauer Straße 43, 65203 Wiesbaden (Germany).

Panasonic and TOUGHBOOK are brand names and registered trademarks of Panasonic Corporation. 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. Android is a trademark of Google LLC. 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.

Mobile Solutions Business Division – Europe (MSBDEU), Panasonic System Communications Company Europe (PSCEU), Panasonic Marketing Europe GmbH, Hagenauer Straße 43, D-65203 Wiesbaden (Germany).

