M101BK

8" Intel® Quad Core™ N2930 Rugged Tablet PC

KEY FEATURES

- Long battery life with Intel® Quad Core™ N2930 Bay Trail-M Processor
- 8" 1280x800 wide viewing angle with PCAP touch
- 5MP Auto-focus camera
- IP65 waterproof and dustproof
- ISO/IEC 9995-3 QWERTY Keypad
- Hot-swappable battery design with optional high capacity battery pack
- MIL-STD-810G compliant
- Optional extendable UHF RFID Reader
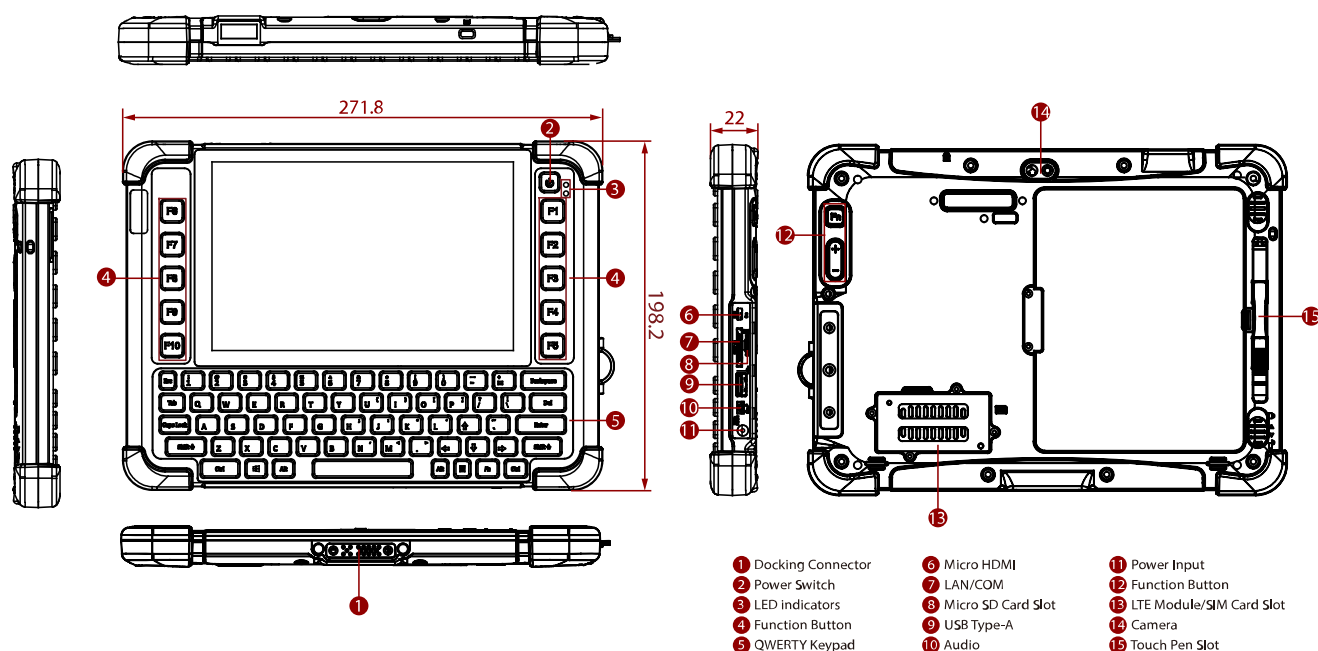- Optional built-in 1D/2D Barcode, HF RFID Reader

CE FC

SPECIFICATIONS

Display

Resolution	1280x800	Size	8.0 inches
Contrast Ratio	800:1	Panel Brightness	500 nits
View Angles	88,88,88,88	Touch / Glass	Projected Capacitive Multi Touch Screen

System Specification

Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Memory	1 x SO-DIMM, DDR3L 1600 MHz, 4GB 8GB (Optional)
Storage	1 x mSATA SSD 64GB mSATA SSD up to 512GB (Optional)	Ethernet controller	4 x Intel® Ethernet Controller I210-IT
Security	TPM 2.0	Operating System	Windows 7 Embedded Systems (Optional) Windows 10 IoT Enterprise (Optional) Linux Ubuntu 18.04 (Optional)

Environment

Operating Humidity	10% to 90% RH, Non-Condensing, MIL-STD 810G Method 507.5 Procedures I	Operating Temperature	AC Mode: -20°C to 60°C (-4°F to 140°F), Battery Mode: -10°C to 50°C (32°F to 122°F), MIL-STD 810G Method 501.5 Procedures II, Method 502.5 Procedures II
Storage Temperature	-30°C to 70°C (-22°F to 158°F), MIL-STD 810G Method 501.5 Procedures I, Method 502.5 Procedures I	Shock	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I	IP rating	IP65

Certification

Certification	CE, FCC

Mechanical

Dimension	271.8 x 198.2 x 22 mm	Weight	1.35 kg (3 lbs)
Enclosure	Plastic	Cooling System	Fanless Design

Accessory

Accessory	Adapter and Power Cord Capacitive Stylus Standard Battery	Optional Accessory	Desk Dock (Optional) Vehicle Dock (Optional) Battery Charger (Optional) High Capacity Battery (Optional) Hand Strap (Optional)

IO Ports

USB Port	1 x USB 3.0	**SD Card Slot**	1 x Micro SD Slot
Video	1 x Micro HDMI (Optional)	**Audio**	2 x Stereo Speaker 1 x 3.5mm Audio Combo Conn. (Mic in or Line Out)
Expansion Port	1 x Expansion Connector for USB 2.0 / Full RS232 (Optional)	**LAN**	1 x 30-pin Combo Conn for Giga-LAN or RS232
Indicator	Power, Battery, HDD, RF		

Power

Battery	7.4V, typ. 5140 mAh Li-Polymer Battery (2S1P) ; 7.4V, typ. 10280 mAh Li-Polymer Battery (Optional)	**Battery Operating Time**	Operating Time Std. Battery: 6 hours ; High Capacity Battery: 12 hours (tested with MobileMark 2007)
Power Rating	19V DC	**Adapter**	100-240V, 50-60Hz / 19V DC

Camera

Rear Camera	5MP auto-focus camera with LED flash

Barcode Scanner

Barcode Scanner	1D/2D Barcode Reader (Optional)

Control

Button	Physical Buttons: ISO/IEC 9995-3 QWERTY Keypad , IP65 water and dust proof, with LED backlight (keypad dimensions : min. 10x10mm) 1 x Power, 10 x Function Keys (programmable by Hottab)

DIMENSIONS UNIT:MM

271.8

22

198.2

1	Docking Connector	6	Micro HDMI	11	Power Input
2	Power Switch	7	LAN/COM	12	Function Button
3	LED indicators	8	Micro SD Card Slot	13	LTE Module/SIM Card Slot
4	Function Button	9	USB Type-A	14	Camera
5	QWERTY Keypad	10	Audio	15	Touch Pen Slot

NOTE

1. Total usable memory will be less dependent upon actual system configuration.
2. 1D/2D Barcode Reader and HF RFID Reader are mutually exclusive options.
3. Length measurements do not include protrusions. Weight varies with options.
4. The drop test with a high-capacity battery must come with a hand strap.
5. Measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached.
6. Accessories may vary depending on your configuration.
7. This is a simplified drawing and some components are not marked in detail.
8. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.