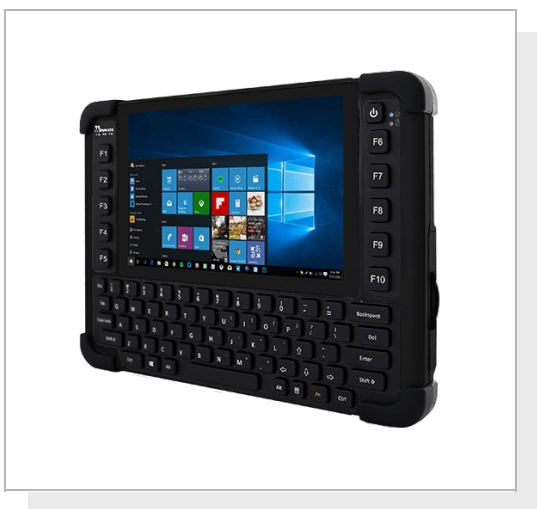# M101BK

8inch Industrial Mobile Computer with Intel® Celeron® N2930

KEY FEATURES

- Long battery life with Intel® Celeron® N2930 Bay Trail-M Processor industrial mobile computer
- 8" 1280x800 wide viewing angle with PCAP touch
- 5MP Auto-focus camera
- IP65 waterproof and dustproof,Windows Vehicle Mounted Computer
- 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
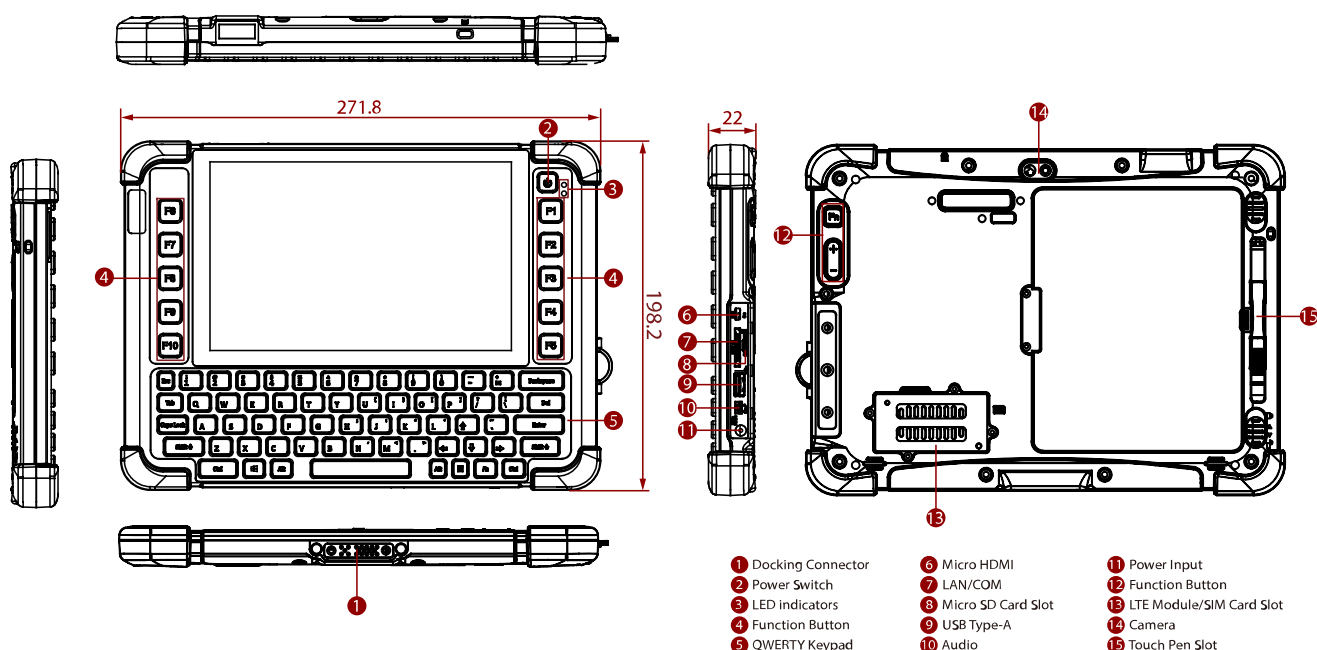- Optional built-in 1D/2D Barcode, HF RFID Reader

CE FC

SPECIFICATIONS

Display

Resolution	1280x800	**Size**	8 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 128GB. mSATA SSD up to 512GB. (Optional)	**Ethernet controller**	1 x Intel® Ethernet Controller WG82574L
Security	TPM 2.0	**Operating System**	Windows 7 Embedded Systems (Optional) Windows 10 IoT Enterprise (Optional) Linux Ubuntu 20.04 (Optional)
WLAN	Support	**BT**	Support
WWAN	4G LTE (Optional)	**GNSS**	GPS, GLONASS

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

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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) UHF RFID Reader (Optional) VESA Mount Kit (Optional) Smart Card Reader (Optional) Shoulder Strap (Optional) LAN Cable (Optional) Micro HDMI Cable (Optional) RS232 Cable (Optional) Vehicle Charger (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

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

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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.