M101BK, 8-inch Rugged Tablet PC

A Rugged Tablet that Can Survive Any Environment and Get Real Work Done

M101BK is a rugged tablet PC with robust set of features designed to withstand industrial use while providing high tech solutions that increase productivity, improve safety, and reduce operational costs. The processing power comes from Intel's quad core N2930 Bay Tail-M processor paired with genuine Intel graphics for high performance. T The tablet features a brilliant, in-plane switching with direct optical bonding, projective capacitive touch screen, which is outdoor viewable and offers 1280 x 800 pixel resolution. Additionally, the tablet features QWERTY keypad and many function keys to easy data input. Weighing at just 2.20 pounds (approx. 1500 grams) the M101BK delivers lightweight mobility in a rugged tablet.

Highlights

- Long battery life with Intel Quad Core N2930 Bay Trail-M Processor
- 8" 1280x800 Wide Viewing Angle with P-Cap Touch
- 5MP Auto-focus camera supporting barcode decoding
- IP65 waterproof and dustproof
- ISO/IEC 9995-3 QWERTY Keypad
- Built-in 802.11 a/b/g/n/ac WiFi + Bluetooth 4.0 combo module
- Built-in WWAN module
- MIL-STD-810G compliant

Order Information		
	3G	LTE
M101BK	Default	Optional

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Display Specification

Size	8-inch display with LED backlight
Resolution	1280 x 800
Brightness	500 nit With direct optical bonding for sunlight readable
Touch	Multi-touch projected capacitive, Withstand repetitive typing, and scratch resistant throughout the life span
Number of Colors	24 bit RGB
Contrast Ratio	800:1

System Specification

Processor	Intel Quad Core N2930 Bay Trail-M Processor, 1.83 GHz
System Memory	8GB SODIMM DDR3L-1600 [1]
Storage	256GB m.2 SATA SSD
Ethernet	Compliant with the 1 Gb/s Ethernet 802.3 specifications
Operating System	Default: Linux Ubuntu 16.04 Optional: Windows 10 IoT Enterprise

Wireless Communication

WLAN	802.11 a/b/g/n/ac
Bluetooth	Bluetooth 4.0 Dual Mode (Classic + Low Energy)
GPS	GPS, GLONASS, BeiDou, and Galileo
WWAN	Default 3G support: WCDMA, HSDPA, HSUPA, HSPA+, GSM/GPRS/EDGE Optional LTE support : FDD LTE, TDD LTE, DC-HSPA+/HSPA+/HSPA/UMTS, TD-SCDMA, GSM/GPRS/EDGE

Interface

Lan/ RS232	1 x 30-pin Combo Conn for Giga-LAN
USB	1 x USB 3.1
Power Input	1 x Power Jack
Micro SIM Slot	1 x Micro SIM Slot
Audio Connector	1 x 3.5mm Audio Combo Conn. (Mic in or Line Out)

Keyboard and Input

Touch	• Multi-Touch Projective Capacitive, withstand repetitive typing, and scratch resistant throughout the life span
Button	• 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)
LED Indicators	Power, Battery

Audio

Speaker	2 x Stereo Speaker (80 db output)

Cameras

Rear Camera	5MP auto-focus camera with LED flash at rear, with Barcode decoding support

Security Function

Security	• Password security for user and hard disk lock • Trusted Platform Module (TPM) V1.2 [2] • Kensington lock slot

Mechanical and Environment

Dimension (W x L x H)	271.8 x 198.2 x 22 mm (10.7 x 7.80 x 0.87 inches) [3]
Weight	1.5 kg (3.3 lbs)
Operating Temperature	AC Mode: -20°C to 60°C (-4°F to 140°F), Battery Mode: 0°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
Humidity	10% to 90% RH, non-condensing, MIL-STD 810G Method 507.5 Procedures I
IP Proof	IP65 certified, dustproof and waterproof
Shock	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I
Drop	MIL-STD-810G Method 516.6 Procedure IV , 4 ft to concrete [4]

Power Management

Power Input	19V DC
Battery	7.4V, typ. 10280 mAh Li-Polymer Battery (2S2P)
Battery Operating Time	High Capacity Battery: 16 hours (tested with MobileMark 2007) [5]
Adapter	100-240V, 50-60Hz / 19V DC
AC Adapter Certificate	Compliant with the BS546, BS 546A, SANS 164-1, SABS 164-1 and IA16A3 standards
Power Plug Type	BS 546 A Type M plug, 2 POLE-3 WIRE GROUNDING (2P+E), Power Rating: 15A - 16A 250

Certificates

EMC	IEC 61000-4-6
Safety	FCC Part 2. 1092

Accessories

Standard Accessories

AC Adapter	922D065W19V1
LAN Adapter	94I0080300K1
High Capacity Battery	98K000A0003P

Optional Accessories [6]

High Capacity Battery	98K000A0003P
Shoulder Strap	98K000A0003Q
Thermal Printer	9AN000000004
Battery Charger (6-pack)	98KT00A0000H
Storage Case	9BN000000004

Drawing [7]
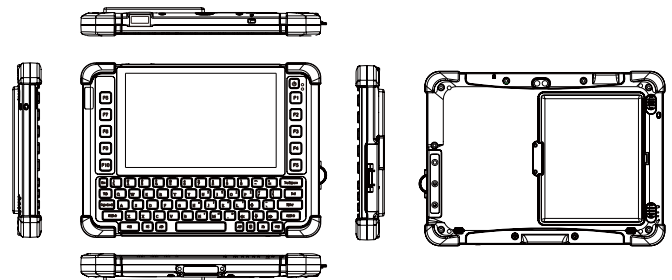
⚠ **Caution** — Do Not Expose the Battery Pack to Excessive Heat, or Extreme Heat (Near Fire, in Direct Sunlight for example)
Do not expose bare skin to this product when handling this unit in extreme hot or cold environments

1. Total usable memory will be less depending upon actual system configuration.
2. TPM 2.0 available upon request.
3. Length measurements do not include protrusions. Weight varies with options.
4. The drop test with high-capacity battery must come with 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.

Winmate