

# M101BK-S, 8-inch Rugged Tablet PC

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

M101BK-S 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 Trail-M processor paired with genuine Intel graphics for high performance. The tablet features a brilliant, in-plane switching with direct optical bonding projective capacitated touch screen, which is outdoor viewable and offers a 1280 x 800 resolution. Additionally, the tablet features a QWERTY keypad and function keys for easy data input. Weighing at just 2.97 pounds (approx. 1350 grams) the M101BK-S 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
- IP65 waterproof and dustproof
- ISO/IEC 9995-3 QWERTY Keypad
- Hot-swappable battery design with optional High capacity battery pack
- Built-in 802.11 a/b/g/n/ac WiFi + Bluetooth 4.0 combo module
- Optional WWAN module
- MIL-STD-810G compliant

## Order Information

1. 19V 65W Power Adapter x 1
2. Power Cord x 1
3. Standard Battery x 1
4. M101BK Quick Start Guide x 1
5. Manual & Driver CD x 1
6. Capacitive Stylus x 1

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## Display Specification

Size	8-inch display with LED backlight
Resolution	1280 x 800
Brightness	500 cd/m <sup>2</sup> With Optical Bonding
Touch	Multi-touch projected capacitive, Withstand repetitive typing, and scratch resistant throughout the life span
Contrast Ratio	800:1

## System Specification

Processor	Intel Celeron Quad-Core N2930 1.83 GHz
System Memory	8GB SODIMM DDR3L-1600 <sup>1</sup>
Storage	256GB m.2 SATA SSD
Ethernet	Compliant with the 1 Gb/s Ethernet 802.3 specifications
Operating System	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, and Galileo
WWAN	Optional LTE support : FDD LTE, TDD LTE, DC-HSPA+/HSPA+/HSPA/UMTS, TD-SCDMA, GSM/GPRS/EDGE

## Interface

LAN	1 x 30-pin Combo Conn. For Giga-LAN
USB	1 x USB 3.0
Power Input	1 x Power Jack
Audio Connector	1 x 3.5mm Audio Combo Conn. (Mic in or Line Out)
SIM Card Slot	1 x Micro SIM Slot

## Keyboard and Input

Touch	<ul style="list-style-type: none"><li>Multi-Touch Projected Capacitive, withstands repetitive typing, and scratch resistant throughout its life span</li></ul>
Physical Buttons	<ul style="list-style-type: none"><li>ISO/IEC 9995-3 QWERTY Keypad , IP65 water and dust proof, with LED backlight (keypad dimensions : min. 10x10mm)</li><li>1 x Power, 10 x Function Keys (programmable by Hottab)</li></ul>
LED Indicators	Power, Battery

## Audio

Speaker	2 x Stereo Speaker (80 db output)
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## Data Capture

Camera	5MP Auto-Focus Camera with LED Flash at rear, with Barcode decoding support
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## Security Function

Security	<ul style="list-style-type: none"><li>Password security for user and hard disk lock</li><li>Trusted Platform Module (TPM) V2.0</li><li>Kensington lock slot</li></ul>
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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

- Total usable memory will be less depending upon actual system configuration.
- Length measurements do not include protrusions. Weight varies with options.
- The drop test with high-capacity battery must come with hand strap.
- Accessories may vary depending on your configuration.
- This is a simplified drawing and some components are not marked in detail.

## Mechanical and Environment

Dimension (W x L x H)	271.8 x 198.2 x 22 mm <sup>2</sup>
Weight	1.35 kg (2.97 lbs)
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
Humidity	10% to 90% RH, non-condensing, MIL-STD 810G Method 507.5 Procedures I
IP Proof	IP65
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 <sup>3</sup>

## Power Management

Power Input	19V DC
Battery	7.4V, typ. 10280 mAh Li-Polymer Battery (2S2P)
Battery Operating Time	High Capacity Battery: 12hours (tested with MobileMark 2014)
AC 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)

## Certificates

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

## Accessories

### Standard Accessories

Adapter and Power Cord	922D065W19V1 94BD03B03000
Capacitive Stylus	9B0000000415
High Capacity Battery	98K000A0003P

### Optional Accessories<sup>4</sup>

Battery Charger	98KT00A0000H
Active Pen	98K000A0007D
Hand Strap	9B000000006S
Shoulder Strap	98K000A0003Q
LAN Cable	94I0080300K1
Thermal Printer	9AN000000004
Suitcase	9BN000000004
1.2m USB cable	948040002201

## Drawing<sup>5</sup>

