

# 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 Trail-M processor paired with genuine Intel graphics for high performance. The tablet features a brilliant, in-plane switching with direct optical bonding projected capacitive 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 3 pounds (approx. 1350 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
- 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
- Optional Built-in 1D/2D Barcode, HF RFID Reader
- Optional Add-on UHF RFID, Smart Card Reader
- MIL-STD-810G compliant
- Optional extendable UHF RFID Reader

### 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

### Order Information

M101BK	Standard
M101BK-LE	4G/LTE for Europe
M101BK-LA	4G/LTE for North America
M101BK-BH	1D/2D Barcode
M101BK-BT	Smart Card Reader
M101BK-HF	HF RFID
M101BK-UF	UHF RFID

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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 Celeron Quad Core N2930, 1.83 GHz
System Memory	4GB SODIMM DDR3L-1600, Up to 8GB <sup>1</sup>
Storage	64GB m.2 SATA SSD, Up to 256GB.
Ethernet	Compliant with the 1 Gb/s Ethernet 802.3 specifications
Operating System	Windows 10 IoT Enterprise Windows 7 Pro for Embedded Systems

## Wireless Communication

WLAN	802.11 a/b/g/n/ac
Bluetooth	Bluetooth 4.0 Dual Mode
GPS	GPS, Galileo
WWAN	Optional 4G (LTE, HSPA+, GSM/GPRS/EDGE, EV-DO Rev A, 1 x RTT)

## Interface

LAN/RS232	1 x 30-pin Combo Conn for Giga-LAN or RS232
USB	1 x USB 3.0
Power Input	1 x Power Jack
Micro SD Slot	1 x Micro SD Slot
Audio Connector	1 x 3.5mm Audio Combo Conn. (Mic in or Line Out)
HDMI	1 x Micro HDMI
Expansion Port	1 x Expansion Connector for USB 2.0 / Full RS232 (Optional)

## Keyboard and Input

Touch	• Multi-Touch Projected Capacitive, withstands repetitive typing, and scratch resistant throughout its life span
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)
LED Indicators	Power, Battery, HDD, RF

## 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
Barcode	Optional short range 1D/2D Barcode Reader <sup>2</sup>
HF RFID	Optional HF RFID Reader <sup>2</sup>
UHF RFID	Optional UHF RFID Reader
Smart Card	Optional Smart Card Reader

## Security Function

Security	• Password security for user and hard disk lock • Trusted Platform Module (TPM) V2.0 <sup>3</sup> • Kensington lock slot
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### 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. 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 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.

## 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) <sup>4</sup>
Weight	1.35 kg (3 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, 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 <sup>5</sup>

## Power Management

Power Input	19V DC
Battery	7.4V, typ. 5140 mAh Li-Polymer Battery (2S1P) 7.4V, typ. 10280 mAh Li-Polymer Battery (2S2P, optional)
Battery Operating Time	Operating Time Std. Battery: 6 hours High Capacity Battery: 12 hours (tested with MobileMark 2007) <sup>6</sup>
AC Adapter	100-240V, 50-60Hz / 19V DC

## Certificates

CE, FCC

## Accessories

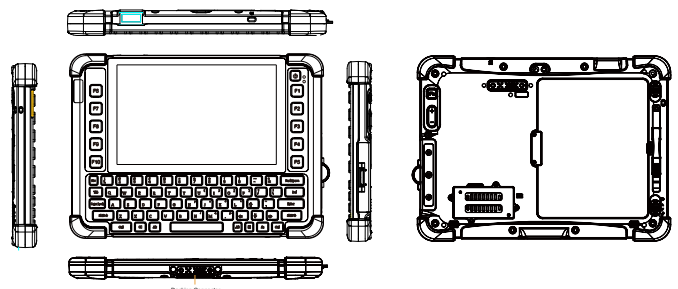
### Standard Accessories

Adapter and Power Cord	922D065W19V1
Capacitive Stylus	9B0000000415
Standard Battery	98K000A0003T

### Optional Accessories <sup>7</sup>

Desk Dock	98DT00A0000E
Vehicle Dock	98D000A0004R
Vehicle Cradle	98DT00A0000Z
Battery Charger	98KT00A0000F
Active Pen	98K000A0007D
High Capacity Battery	98K000A0003S
Hand Strap	98K000A0003J
UHF RFID Reader	98K000A0004J
Smart Card Reader	98K000A0003U
Shoulder Strap	98K000A0003Q
LAN Cable	94I0080300K1
Carry Bag	9B000000003J
Micro HDMI Cable	9491191190K1
RS232 Cable	94G3090300K0
Mobile Printer	9B000000007A 9B000000007B
Vehicle Charger	9226065W19V0

## Drawing <sup>8</sup>



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