M101BL, 10.1-inch Rugged Tablet PC

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

M101BL 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. 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. Weighing at just 2.7 pounds (approx. 1200 grams) the M101BL delivers lightweight mobility in a rugged tablet.

Highlights

- Intel Quad Core N2930 Bay Trail-M Processor
- 10.1" 1280 x 800 IPS LED Panel with direct optical bonding
- Optional integrated 1D/2D Barcode Reader or HF RFID Reader for data collection
- Optional extendable UHF RFID Reader
- IP65 waterproof and dustproof
- Rated for extreme temperature use

*Please consult your reseller or Winmate representative before purchasing.

*Accessories and Integrated Options may vary depending on your configuration. Visit Winmate website for more accessories and details.
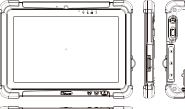
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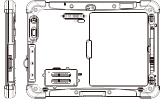## A Rugged Tablet that Can Survive Any Environment and Get Real Work Done

Display Specification

Size	10.1-inch IPS display with LED Backlight
Resolution	1280 x 800 WUXGA
Panel Brightness	350 nit
	With direct optical bonding for sunlight readable
Touch	Multi-touch projected capacitive
Contrast Ratio	800:1
Viewing Angle	89/89/89/89
Technology	• Anti reflective and anti-glare technology (Optional)
	• Ambient light sensor, e-compass, gyro, acceleration sensors
	• Automatic screen rotation
	• Intel HD Graphics (built-in CPU) video controller

System Specification

Processor	Intel Quad Core N2930 Bay Trail-M Processor 1.83 GHz
System Memory	4GB DDR3L SDRAM (up to 8GB) [1]
Storage	64GB mSATA solid state drive SSD
	Optional 256GB, up to 128GB additional storage with optional microSDXC card slot
Operating System	Windows 10 IoT Enterprise
	Windows Embedded 8.1 Industry Pro
	Windows 7 Pro for Embedded System

Wireless Communication

WLAN	802.11 a/b/g/n
Bluetooth	Bluetooth 4.0 Dual Mode (Classic + Low Energy) Class I
GPS	u-Blox Neo-6Q
WWAN	Optional 4G LTE

Interface

Docking Connector	1 x 19-pin docking connector
HDMI	1 x Optional micro HDMI
Lan/ RS232	1 x 30-pin Combo conn (Giga-LAN or RS232)
USB	1 x USB3.0
Power Input	1 x Power Jack
Micro SD	1 x Micro SD Slot
Audio Connector	1 x Audio Combo connector (Mic in or Line Out)
Expansion Port	1 x Expansion Connector for USB2.0 / Full RS232 (Optional)

Keyboard and Input

Touch	• 10-point multi touch, support Rain, Stylus, Glove Mode
Button	• On-screen QWERTY keyboard
	1 x power, 1 x Home, 2 x volume key,
	2 x function key (Programmable function key configured by Hottab Utility)
LED Indicators	Power, Battery, HDD, RF

Audio

Microphone	1 x built-in Mic
Speaker	2 x 1 watt speaker

Cameras

Web Camera	2MP webcam
Rear Camera	5MP rear camera with autofocus and LED light

Data Capture

Barcode	Optional 1D/2D Barcode Reader [2]
RFID	Optional HF RFID reader 13.56 MHz [2]
UHF RFID	Optional [2]:
	• EPCglobal Gen2 (ISO 18000-6C) protocol (IP-X and ISO 18000-6B optional)
	• Read Range: 3+ meters for 2x8 cm UHF tags in unobstructed space

Security Function

Security	• Password security for user and hard disk lock
	• Trusted Platform Module (TPM) V1.2 [3]
	• Computrace theft protection agent [4]
Mobile Device Mgmt.	SOTI Mobicontrol compatible [4]

Mechanical and Environment

Dimension (W x L x H)	271.8 x 197.2 x 19 mm (10.7 x 7.76 x 0.75 inches) [5]
Weight	1.2 kg (2.7 lbs) with standard battery,
	1.4 kg (3.1 lbs) with optional high capacity battery
Operating Temperature	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)
Storage Temperature	-30°C to 70°C (-22°F to 158°F)
Humidity	10% to 90% RH, non-condensing
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, 4 ft to concrete [6]

Power Management

Power Input	12-19V DC
Battery	7.4V, typ. 5140 mAh Li-Polymer Battery (2S1P)
	7.4V, typ. 10280 mAh Li-Polymer Battery (2S2P, optional)
Battery Operating Time	Std. Battery: 8 hours [7]
	High Capacity Battery: 16 hours [7]
Adapter	100-240V, 50-60Hz / 19V DC

Accessories

Standard Accessories

Adapter and Power Cord	922D065W19V1
Standard Battery	98K000A0003R
Capacitive Stylus	9B0000000415

Optional Accessories [8]

Desk Dock	98DT00A0000E
Vehicle Dock (without VGA output)	98K000A0003L
Vehicle Cradle	98DT00A0000C
Vehicle Charger	9226065W19V0
High Capacity Battery	98K000A0003P
Battery Charger	98KT00A0000F
Smart Card Reader	98K000A0003U
UHF RFID Reader	98K000A0004J
VESA Mount Kit	98KT00A0001H
Hand Strap	98K000A0003J
LAN Cable	94I0080300K1
RS232 Cable	94G3090300K0
Micro HDMI Cable	9491191190K1
Shoulder Strap	98K000A0003Q
Carry Bag	9B000000003J

Drawing [9]

⚠ **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. Barcode and HF RFID are mutually exclusive. HF RFID and UHF RFID are mutually exclusive.
3. TPM 1.2 available upon request.
4. Computrace theft protection and SOTI are available upon request.
5. Length measurements do not include protrusions. Weight varies with options and digitizer pen.
6. The drop test with high-capacity battery must come with hand strap.
7. Measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached.
8. Accessories and Integrated Options may vary depending on your configuration.
9. This is a simplified drawing and some components are not marked in detail.

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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