M101B-HF, 10.1-inch Rugged Tablet PC
with HF RFID

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

M101B-HF 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 1920 x 1200 pixel resolution. Equipped with HF RFID and weighing at just 2.7 pounds (approx. 1200 grams) the M101B-HF delivers lightweight mobility in a rugged tablet.

Highlights

- Intel Quad Core N2930 Bay Trail-M Processor
- 10.1" 1920 x 1200 IPS LED Panel with direct optical bonding
- Buit-in HF RFID for data collection
- 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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Display Specification

Size	10.1-inch IPS display with LED Backlight
Resolution	1920 x 1200 WUXGA
Panel Brightness	700 nit
	With direct ptical bonding for sunlight readable
Touch	Multi-touch projected capacitive
Contrast Ratio	800:1
Viewing Angle	85/85/85/85
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, up to 2.16 GHz with turbo boost technology
System Memory	4GB DDR3L SDRAM (up to 8GB)[1]
Storage	64GB mSATA solid state drive SSD
	Optional 256GB, up to 64GB 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 24-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 Hand / Gloves and Rain Mode
Button	• On-screen QWERTY keyboard Button 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 Digital Mic with Noise Cancellation
Speaker	2 x 1 watt speaker

Cameras

Web Camera	2MP webcam
Rear Camera	8MP rear camera with autofocus and LED light

Data Capture

RFID	• HF RFID reader 13.56 MHz
	• Support Transponder: ISO15693, ISO14443A , ISO18092
	• RF Transmit Frequency: 13.56MHz

Security Function

Security	• Password security for user and hard disk lock
	• Trusted Platform Module (TPM) V2.0 [2]
	• Computrace theft protection agent [3]
Mobile Device Mgmt.	SOTI Mobicontrol compatible [3]

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)[4]
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 [5]

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 [6]
	High Capacity Battery: 16 hours [6]
Adapter	100-240V, 50-60Hz / 19V DC

Accessories

Standard Accessories

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

Optional Accessories [7]

Desk Dock	98DT00A0000E
Vehicle Dock (without VGA output)	98K000A0003L
Battery Charger	98KT00A0000F
Smart Card Reader	98K000A0003U
High Capacity Battery	98K000A0003P
Hand Strap	98K000A0003J
UHF RFID Reader	98K000A0004J
VESA Mount Kit	98KT00A0001H
Shoulder Strap	98K000A0003Q
Carry Bag	9B000000003J
LAN Cable	94G3090300K5
Micro HDMI Cable	9491191190K1
RS232 Cable	94G3090300K4
Vehicle Charger	9226065W19V0

Drawing [8]
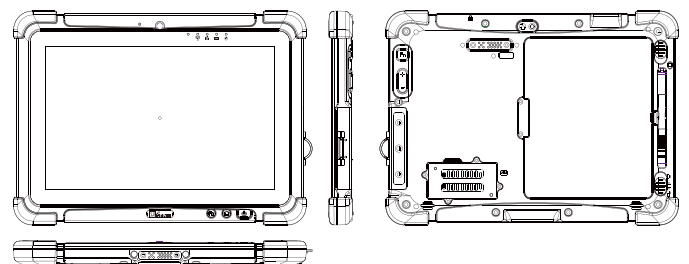
⚠ **Caution** Do Not Expose the Battery Pack to Excessive Heat, or Extreme Heat (Near Fire, in Direct Sunlight for example)
Do not expose bare skin to this product when handling this unit in extreme hot or cold environments

1. Total usable memory will be less depending upon actual system configuration
2. TPM 2.0 available upon request
3. Computrace theft protection and SOTI are available upon request
4. Length measurements do not include protrusions. Weight varies with options and digitizer pen
5. The drop test with high-capacity battery must come with hand strap
6. Measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached.
7. Accessories and Integrated Options may vary depending on your configuration
8. This is a simplified drawing and some components are not marked in detail.