

# M101AD-EX

10.1" Windows ATEX Rugged Tablet with Intel® Core™ i5-1235U



## KEY FEATURES

- Intel® Core™ i5-1235U Alder Lake processor
- 10.1" 1920 x 1200 IPS LED Panel with direct optical bonding
- Sunlight readable with antiglare solution
- Allows cross-zone operations in hazardous and explosive environments
- Ex Certificate: Class I Division 2 (CID2), ATEX/IECEX Zone 2
- USB Type C port support PD 3.0 and ALT mode

## INTRODUCTION

Winmate ATEX Rugged Tablet Series is designed for hazardous and explosive environments, offering reliable performance with support for multiple operating systems, including Windows and Android. Featuring sunlight-readable displays with direct optical bonding, IP65-rated protection, and MIL-STD compliance, these tablets ensure durability and usability in challenging conditions. Certified for Class I Division 2 (CID2) and ATEX/IECEX Zone 2, they enable seamless cross-zone operations. Hot-swappable batteries and versatile connectivity enhance productivity across industrial and field applications.

## OVERVIEW



### Certified for Safe Operations in Hazardous Zones

The M101AD-EX Rugged Tablet is designed to function safely in hazardous and explosive environments. It holds the Ex Certificate for Class I Division 2 (CID2) and ATEX/IECEX Zone 2. This certification ensures the tablet can be used confidently across different hazardous zones.

### Outstanding Sunlight Visibility with Anti-Glare Technology

The M101AD-EX Rugged Tablet offers exceptional visibility both indoors and outdoors. Its 10.1" IPS LED panel, paired with a 1920 x 1200 resolution, delivers sharp and clear images. With optical bonding and an anti-glare touch treatment, you get a superior viewing experience in any lighting condition.





### Enhance Efficiency with Real-Time Data Streaming

The M101AD-EX Rugged Tablet delivers real-time data streaming for immediate feedback to your management system. Combined with an Intel processor, optional Barcode and RFID readers, and comprehensive connectivity options like BT, WIFI, LTE, 5G, and GigaLAN, it ensures your operations run smoothly and efficiently.

### Advanced Multi-Touch Experience

The M101AD-EX Rugged Tablet delivers a smooth and responsive touch experience with its Projected Capacitive (P-CAP) Multi-Touch screen. It's designed to support various touch modes, including rain, glove, and stylus modes. This versatility ensures reliable performance in different environments and conditions.



### Built Tough for Industrial Mobility

The M101AD-EX Rugged Tablet is engineered to withstand extreme temperatures, drops, shocks, and vibrations. It's designed for industrial use and meets the MIL-STD-810H standards, making it resilient in challenging environments.

## SPECIFICATIONS

### Display

Resolution	1920x1200	Size	10.1 inches
Contrast Ratio	800:1	Panel Brightness	800.0 nits
View Angles	85,85,85,85	Type	Projected Capacitive Multi Touch
Viewability	Anti-Glare touch treatment	Bonding	Optical Bonding for Sunlight Viewability

### System Specification

Processor	Intel Core i5-1235U (up to 4.4GHz)	Memory	8GB DDR5 SDRAM 16GB DDR5 SDRAM (Optional) 32GB DDR5 SDRAM (Optional)
Storage	256GB M.2 NVMe SSD Additional storage available with micro SDXC card slot 512GB M.2 NVMe SSD (Optional) 1TB M.2 NVMe SSD (Optional) 2TB M.2 NVMe SSD (Optional)	Security	Trusted Platform Module (TPM) 2.0 Kensington Lock
Operating System	Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise LTSC (64 bit) (Optional)	WLAN	Support
BT	Support	WWAN	4G LTE (Optional) 5G (Optional)
GNSS	GPS, GLONASS	RFID	HF RFID reader 13.56 MHz (Optional)
Sensors	Light sensor/ G-sensor / Gyro		

### Camera

Front Camera	2MP Front Camera	Rear Camera	8MP Rear Camera with auto-focus and LED light
--------------	------------------	-------------	---

### Mechanical

Dimension	271.5 x 198.2 x 23.3 mm	Weight	1.2 kg
Cooling System	Fan Design		

### IO Ports

USB Port	1 x USB 3.0 (Type A), 1 x USB 3.0 (Type-C support Power Delivery 20V In and ALT mode)	SD Card Slot	1 x Micro SDXC slot
SIM Card Slot	1 x Nano SIM card slot	Audio	1 x Audio combo 3.5mm audio combo jack Dual Digital Mic With Noise Cancellation Dual Speaker
LAN	1 x RJ45-10/100/1000 GigaLAN port	Indicator	4x LED Indicator for Power, Battery, HDD, RF status
Docking Connector	1 x 19-pin docking connector		

### Environment

Operating Humidity	10% to 90% RH, non-condensing	Operating Temperature	-10°C to 50°C
Storage Temperature	-30°C to 70°C (-22°F to 158°F)	Shock	MIL-STD-810H Method 516.8 Procedure I
Vibration	MIL-STD-810H Method 514.8 Procedure I	IP rating	IP65
Drop	MIL-STD-810H Method 516.8 4 ft		

### Certification

Certification	CE, FCC Hazardous Location Safety: IECEX Class I, Zone 2, Ex ic IIC T4 Gc ATEX Class I, Zone 2, II 3G Ex ic IIC T4 Gc Class I, Division 2, Groups A, B, C, D, T4
---------------	--

## Security Function

<b>SOTI MobiControl</b>	SOTI MobiControl Compliance	<b>Kensington Lock</b>	Kensington Lock Support
-------------------------	-----------------------------	------------------------	-------------------------

## Control

<b>Button</b>	1 x Power, 1 x Home 2 x volume key 2 x Programmable function Keys
---------------	---

## Power

<b>Battery</b>	Hot-swappable 11.55V, typ. 4558 mAh Li-Polymer Battery (3S2P)	<b>Battery Operating Time</b>	Standard. Battery: 8 hours
<b>Power Rating</b>	19V DC	<b>Adapter</b>	100-240V, 50-60Hz / 19V DC

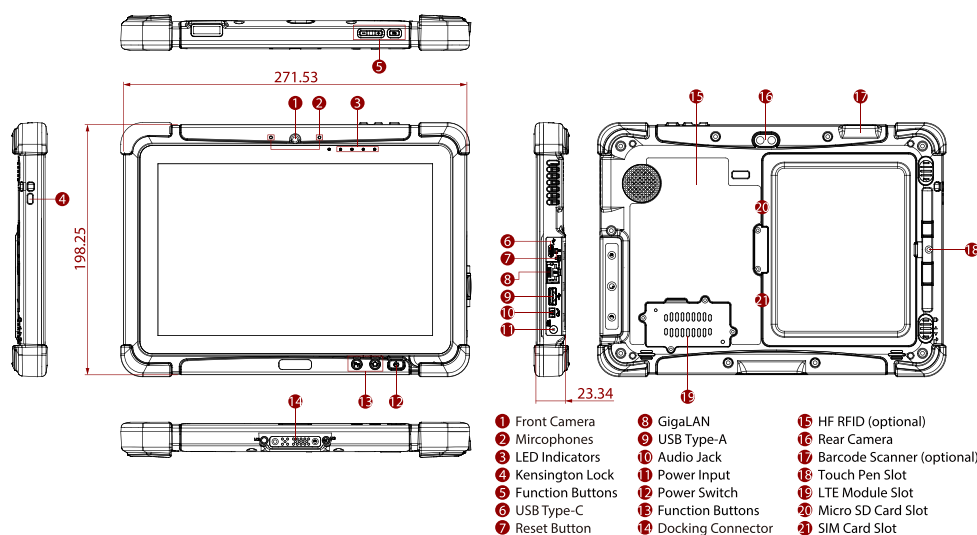
## Accessory

<b>Accessory</b>	Adapter and Power Cord Capacitive Stylus Standard Battery	<b>Optional Accessory</b>	Desk Dock (Optional) Vehicle Dock (without VGA output) (Optional) Vehicle Cradle (Optional) Vehicle Charger (Optional) Hand Strap (Optional) Shoulder Strap (Optional) Carry Bag (Optional)
------------------	---	---------------------------	---

## Barcode Scanner

<b>Barcode Scanner</b>	1D/2D barcode reader (Optional)
------------------------	---------------------------------

## DIMENSIONS UNIT:MM



## NOTE

1. This is a simplified drawing and some components are not marked in detail.
2. Please contact our sales representative if you need further product information.
3. All specifications are subject to change without prior notice.
4. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.