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

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.
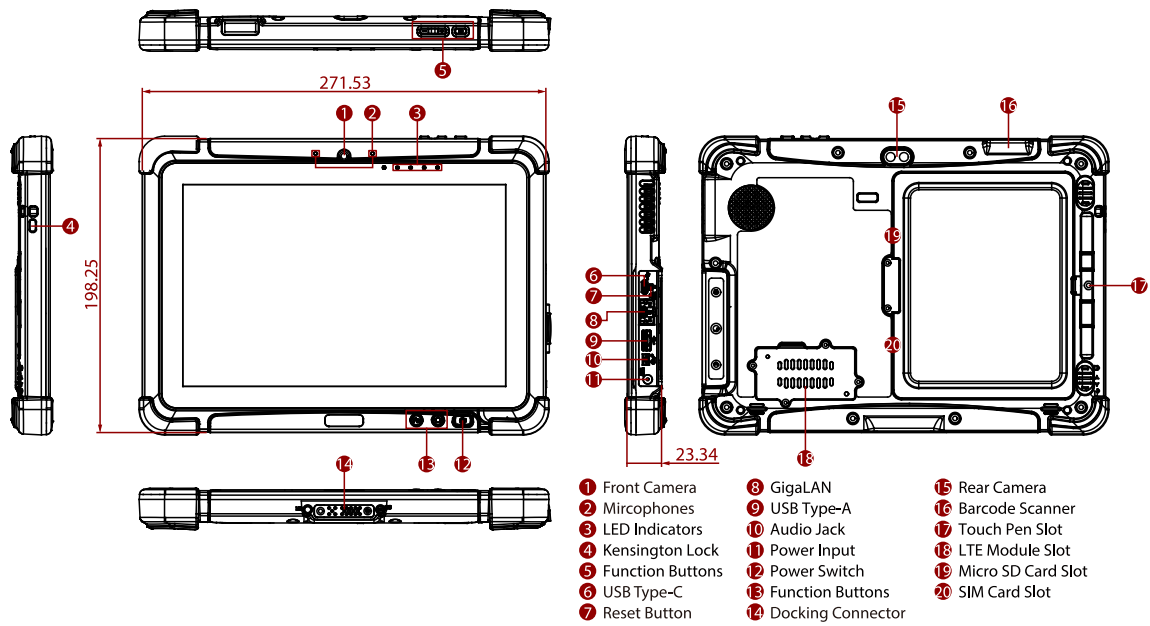
Built Tough for Industrial Mobility

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

SOTI MobiControl	SOTI MobiControl Compliance	**Kensington Lock**	Kensington Lock Support

Control

Button	1 x Power, 1 x Home 2 x volume key 2 x Programmable function Keys

Power

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

Accessory

Accessory	Adapter and Power Cord Capacitive Stylus Standard Battery	**Optional Accessory**	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

Barcode Scanner	1D/2D barcode reader (Optional)

DIMENSIONS UNIT:MM

271.53

198.25

23.34

❶ Front Camera	❽ GigaLAN	⓯ Rear Camera
❷ Mircophones	❾ USB Type-A	⓰ Barcode Scanner
❸ LED Indicators	❿ Audio Jack	⓱ Touch Pen Slot
❹ Kensington Lock	⓫ Power Input	⓲ LTE Module Slot
❺ Function Buttons	⓬ Power Switch	⓳ Micro SD Card Slot
❻ USB Type-C	⓭ Function Buttons	⓴ SIM Card Slot
❼ Reset Button	⓮ Docking Connector	

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.