

# M101S-EX

## 10.1" ATEX Rugged Tablet with Intel® Core™ i5-7200U



### KEY FEATURES

- Allows cross-zone operations in hazardous and explosive environments
- Ex Certificate: Class I Division 2 (CID2), ATEX/IECEX Zone 2
- 7th Gen Intel® Core™ i5-7200U Kaby lake processor
- 10.1" 1920 x 1200 IPS LED Panel with direct optical bonding
- Sunlight readable with anti-glare solution, fully ATEX tablet
- Hot-swappable battery design with optional High capacity battery pack
- IP65 waterproof and dustproof, MIL-STD-810G shock, vibration and drop resistance



### OVERVIEW



#### Rugged Design with a High Level of Protection

Winmate offers intrinsically safe Windows tablet M101S-EX with ATEX, IECEx Zone 2, and CID2 compliances, which can be used in hazardous and non-hazardous environments. It is a system solution for multiple applications, including chemicals, distilleries, petrol, and many more. Like other Winmate rugged tablets, our intrinsically safe Windows tablet is developed with built-in TPM 2.0 and Kensington Lock for hardware-based security, securing information saved on a computer, as intrinsically safe Windows tablet computers typically hold vast amounts of data.



#### Incredible Performance with Intel's CPU

The M101S-EX uses Intel's Core i5-7200U Processor 2.5 GHz (turbo to 3.1 GHz) with an efficient cooling system to provide stable performance and low power consumption. The M101S-EX supports the Windows IoT Enterprise operating system to meet mobile data collection needs in hazardous and non-hazardous environments.



#### Mobility in the harshest environments

Winmate's ATEX Windows tablet is designed with simplicity for a challenging job. Not only can it be effortlessly held in one hand. It also features a wide range of networking options and numerous interfaces. Data gathered on the field can be shared in real-time through wireless LAN, BT, and optional cellular communications networks. The M101S-EX tablet has front and rear cameras, an optional RFID Reader and barcode reader for quick data collection, a hot-swappable battery design, or an optional high-capacity battery for long-lasting power performance.



#### Rugged Design in Mobile Form Factor

The M101S-EX rugged tablet can be effortlessly held in one hand and is also designed to be tough and rugged, withstanding shock, vibration, and dropping up to 4 ft. to concrete according to MIL-STD-810G standards for operations in some of the harshest environments. With all-around rubber edges and covered I/O ports, the M101S-EX is IP65 dust-tight and waterproof. Ready for use in wet and dusty environments.



#### Brilliant 10.1" Display with Ultimate Touch Capability

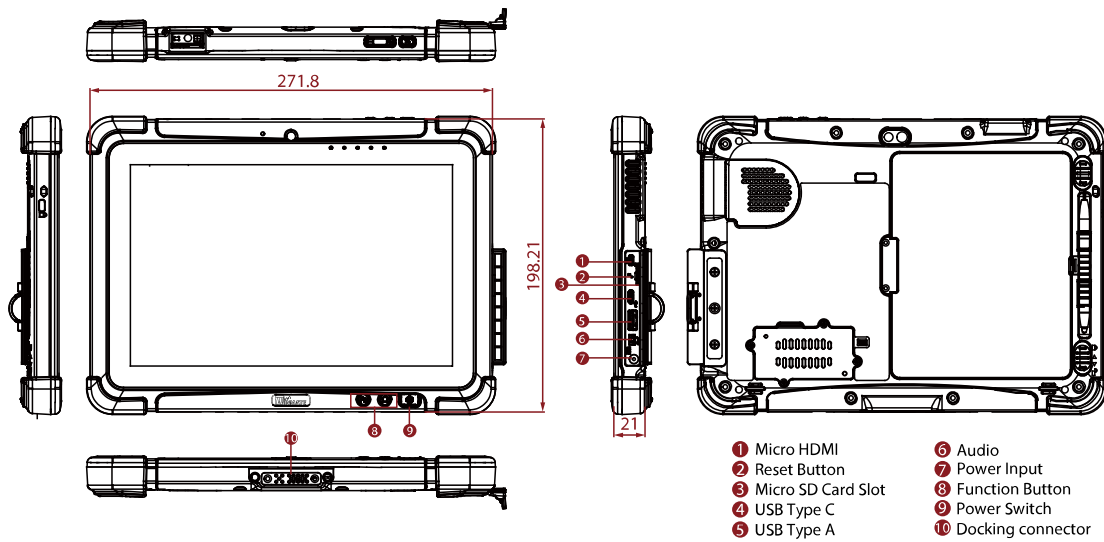
The 10.1" screen of M101S-EX features projected capacitive (PCAP) multi-touch for the best user experience and allows switching windows, taking snapshots, zooming in, and rotating objects easily to take full advantage of the touch interface. With the optical bonding on its panel, the tablet is readable under bright sunlight, thus able to support various field works.

### SPECIFICATIONS

| Display        |           |                  |             |
|----------------|-----------|------------------|-------------|
| Resolution     | 1920x1200 | Size             | 10.1 inches |
| Contrast Ratio | 800:1     | Panel Brightness | 800.0 nits  |

|                             |   |                               |  |
|-----------------------------|---|-------------------------------|--|
| <b>View Angles</b>          | 85,85,85,85   | <b>Type</b>                   | Projected Capacitive Multi Touch   |
| <b>Viewability</b>          | Anti-Glare touch treatment  | <b>Bonding</b>                | Optical Bonding for Sunlight Viewability   |
| <b>System Specification</b> |   |                               |  |
| <b>Processor</b>            | Intel Core i5-7200U 2.5GHz (up to 3.1GHz)<br>Intel Core i5-7300U 2.6GHz (up to 3.5GHz) (Optional)   | <b>Memory</b>                 | 8GB DDR4 SDRAM<br>16GB DDR4 SDRAM (Optional)   |
| <b>Storage</b>              | 256GB SSD<br>Additional storage available with micro SDXC card slot<br>512GB SSD (Optional)   | <b>Security</b>               | Trusted Platform Module (TPM) 2.0<br>Kensington Lock   |
| <b>Operating System</b>     | Windows 10 IoT Enterprise (64 bit)  | <b>WLAN</b>                   | Support  |
| <b>BT</b>                   | Support   | <b>WWAN</b>                   | 4G LTE (Optional)  |
| <b>GNSS</b>                 | GPS, GLONASS  | <b>RFID</b>                   | HF RFID reader 13.56 MHz (Optional)  |
| <b>Sensors</b>              | Light sensor/ G-sensor / Gyro   |                               |  |
| <b>Camera</b>               |   |                               |  |
| <b>Front Camera</b>         | 2MP Front Camera  | <b>Rear Camera</b>            | 8MP Rear Camera with auto-focus and LED light  |
| <b>Mechanical</b>           |   |                               |  |
| <b>Dimension</b>            | 271.8 x 197.2 x 21 mm (10.7 x 7.76 x 0.83 inches)   | <b>Weight</b>                 | 1.25 kg (2.75 lbs) with standard battery,<br>1.45 kg (3.2 lbs) with optional high capacity battery   |
| <b>Cooling System</b>       | Fan Design  |                               |  |
| <b>IO Ports</b>             |   |                               |  |
| <b>USB Port</b>             | 1 x USB 3.0 (Type A), 1 x USB 3.0 (Type C)  | <b>SD Card Slot</b>           | 1 x Micro SDXC slot  |
| <b>SIM Card Slot</b>        | 1 x Micro SIM card slot   | <b>Video</b>                  | 1 x Micro HDMI (Optional)  |
| <b>Audio</b>                | 1 x Audio combo 3.5mm audio combo jack<br>Dual Digital Mic With Noise Cancellation<br>Dual Speaker  | <b>Indicator</b>              | 4x LED Indicator for Power, Battery, HDD, RF status  |
| <b>Docking Connector</b>    | 1 x 19-pin docking connector  |                               |  |
| <b>Environment</b>          |   |                               |  |
| <b>Operating Humidity</b>   | 10% to 90% RH, non-condensing   | <b>Operating Temperature</b>  | -10°C to 50°C  |
| <b>Storage Temperature</b>  | -30°C to 70°C (-22°F to 158°F)  | <b>Shock</b>                  | MIL-STD-810G Method 516.6 Procedure I  |
| <b>Vibration</b>            | MIL-STD-810G Method 514.6 Procedure I   | <b>IP rating</b>              | IP65   |
| <b>Drop</b>                 | MIL-STD-810G Method 516.6, 4 ft   |                               |  |
| <b>Certification</b>        |   |                               |  |
| <b>Certification</b>        | CE, FCC<br>Hazardous Location Safety:<br>IECEx Class I, Zone 2, Ex ic IIC T4 Gc<br>ATEX Class I, Zone 2, II 3G Ex ic IIC T4 Gc<br>Class I, Division 2, Groups A, B, C, D, T4A |                               |  |
| <b>Security Function</b>    |   |                               |  |
| <b>SOTI MobiControl</b>     | SOTI MobiControl Compliance   | <b>Kensington Lock</b>        | Kensington Lock Support  |
| <b>Control</b>              |   |                               |  |
| <b>Button</b>               | 1 x Power, 1 x Home<br>2 x volume key<br>2 x Programmable function Keys   |                               |  |
| <b>Power</b>                |   |                               |  |
| <b>Battery</b>              | Hot-swappable 7.4V, typ. 5140 mAh LiPolymer Battery (2S1P)  | <b>Battery Operating Time</b> | Standard. Battery: 8 hours   |
| <b>Power Rating</b>         | 19V DC  | <b>Adapter</b>                | 100-240V, 50-60Hz / 19V DC   |
| <b>Accessory</b>            |   |                               |  |
| <b>Accessory</b>            | Adapter and Power Cord<br>Capacitive Stylus<br>Standard Battery   | <b>Optional Accessory</b>     | Desk Dock (Optional)<br>Vehicle Dock (without VGA output) (Optional)<br>Vehicle Cradle (Optional)<br>Vehicle Charger (Optional)<br>High Capacity Battery (Optional)<br>Battery Charger (Optional)<br>Hand Strap (Optional)<br>Shoulder Strap (Optional)<br>Carry Bag (Optional)<br>VESA Mount Kit (Optional) |
| <b>Barcode Scanner</b>      |   |                               |  |
| <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.