

# G900AD

8" Intel® Core™ i5-1235U Rugged Robotic Controller



CE

FC

## KEY FEATURES

- 8" 1920 x 1200 IPS LED Panel with direct optical bonding
- Intel® Core™ i5-1235U processor
- Sunlight readable with antiglare solution
- Supports WIFI, BT and optional 4G/5G
- All-weather, dust, and water-resistant design (IP65). MIL-grade drop, Shock and vibration

## INTRODUCTION

Winmate's Rugged Handheld Robotic Controller Series is a versatile and durable solution tailored for robotics, defense, public safety, and industrial automation. Available in sizes from 5.5-inch to 10.1-inch, these controllers support Windows, Android, and Linux, providing flexibility for various applications. These devices have IP65-rated water and dust resistance. They also have MIL-grade shock and vibration protection. They are made for reliable use in all weather. PCAP touchscreens, Intel or ARM processors, Wi-Fi, Bluetooth, and optional 4G make these robotic controllers strong performers. They work well in tough environments.

## SPECIFICATIONS

### Display

|                       |  |                         |                                     |
|-----------------------|--|-------------------------|-------------------------------------|
| <b>Bonding</b>        | Optical Bonding for Sunlight Viewability | <b>Type</b>             | Projected Capacitive Multi Touch    |
| <b>Viewability</b>    | Anti-Glare touch treatment               | <b>Touch Mode</b>       | Support Hand / Gloves and Rain Mode |
| <b>Resolution</b>     | 1920x1200                                | <b>Size</b>             | 8.0 inches                          |
| <b>Contrast Ratio</b> | 1000:1                                   | <b>Panel Brightness</b> | 1000.0 nits                         |
| <b>View Angles</b>    | 85,85,85,85                              |                         |                                     |

### System Specification

|                  |   |                         |   |
|------------------|---|-------------------------|---|
| <b>Processor</b> | Intel® Core™ i5-1235U 3.3GHz(up to 4.40 GHz)<br>Intel Core i3/i7 Processor (Optional) | <b>Memory</b>           | 8GB DDR5 SDRAM, up to 32GB  |
| <b>Storage</b>   | 256GB SSD<br>512GB SSD (Optional)<br>1TB SSD (Optional)<br>2TB SSD (Optional)         | <b>Operating System</b> | Windows 10 IoT Enterprise LTSC (64 bit) (Optional)<br>Windows 11 IoT Enterprise LTSC (64 bit) (Optional)<br>Linux Ubuntu 22.04 (Optional) |
| <b>WLAN</b>      | Support   | <b>BT</b>               | Support   |
| <b>WWAN</b>      | 4G LTE (Optional)<br>5G (Optional)  | <b>GNSS</b>             | GPS/GLONASS   |

### Mechanical

|                  |                         |                       |            |
|------------------|-------------------------|-----------------------|------------|
| <b>Dimension</b> | 259.8 x 166.1 x 44.2 mm | <b>Cooling System</b> | Fan Design |
|------------------|-------------------------|-----------------------|------------|

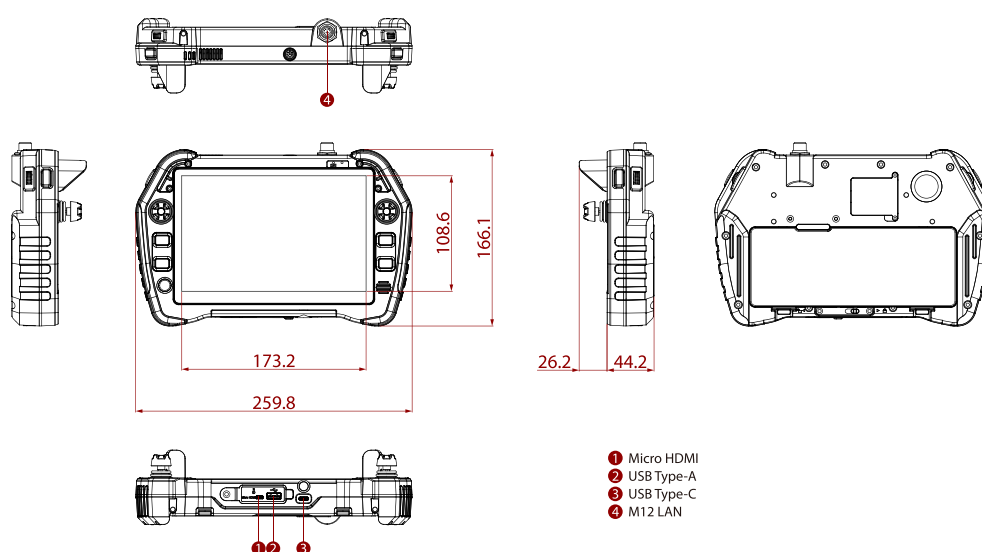
### IO Ports

|                 |  |              |   |
|-----------------|--|--------------|---|
| <b>USB Port</b> | 1 x USB 3.0 (Type-A)<br>1 x USB 3.2 Gen 2 x 1 (Type C) | <b>Video</b> | 1 x micro HDMI output                   |
| <b>Audio</b>    | 1x Speaker   | <b>LAN</b>   | 1 x M12 LAN Connector (10/100/100 Mbps) |

### Environment

|                     |   |                       |   |
|---------------------|---|-----------------------|---|
| Operating Humidity  | 10% to 90% RH, non-condensing                                       | 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)                                      | Shock                 | MIL-STD-810H Method 516.8 Procedure I                 |
| Vibration           | MIL-STD-810H Method 514.8 Procedure I                               | IP rating             | IP65  |
| Certification       |   |                       |   |
| Certification       | CE, FCC   |                       |   |
| Control             |   |                       |   |
| Button              | 2 x joystick<br>2 x Roller switch<br>6 x buttons                    |                       |   |
| Power               |   |                       |   |
| Battery             | 11.4V, typ. 3500 mAh Lilon Removable Battery (3S1P)                 | Power Rating          | 1 x USB (Type C) (Charging)                           |
| Adapter             | PD Adapter 100W   |                       |   |
| Accessory           |   |                       |   |
| Accessory           | 1 x PD Adapter 100W<br>1 x M12 LAN external cable<br>1 x Power Cord | Optional Accessory    | shoulder strap(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.