

# G900G7

## 8" ARM A78 + A55 Rugged Robotic Controller



CE

FC

### KEY FEATURES

- 8" 1920 x 1200 IPS LED Panel with direct optical bonding
- 4GB RAM + 64GB eMMC
- ARM Genio 510 2 x A78 2.0GHz + 4 x A55 2.0GHz
- Supports WIFI, BT, and optional 4G/5G
- Sunlight readable with antiglare solution
- All-weather, dust, and water-resistant design (IP65). MIL-grade drop, Shock and vibration

### INTRODUCTION

The Winmate Robotic Controller is a smart control solution made for modern automation and robotics. It offers great performance and reliability in tough industrial settings. These controllers use advanced technology and a strong design. This makes them perfect for industries that need accuracy and toughness. Equipped with powerful Intel and Qualcomm processors, Winmate Robotic Controllers support multitasking while handling complex computations and data processing needs.

### 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> | Genio 510 2 x A78 2.2GHz + 4 x A55 2.0GHz | <b>Memory</b>           | 4GB          |
| <b>Storage</b>   | 64GB eMMC                                 | <b>Operating System</b> | Android 13.0 |
| <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

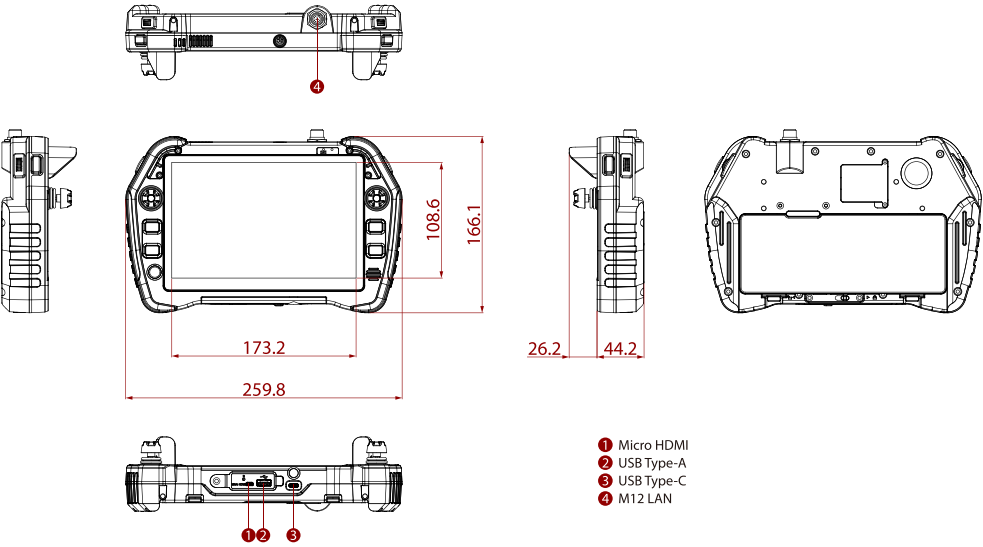
|                 |                                                    |              |                                         |
|-----------------|----------------------------------------------------|--------------|-----------------------------------------|
| <b>USB Port</b> | 1 x USB 3.0 (Type-A)<br>1 x USB 3.1 Gen 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

|                            |                                |                              |                                                       |
|----------------------------|--------------------------------|------------------------------|-------------------------------------------------------|
| <b>Operating Humidity</b>  | 10% to 90% RH, non-condensing  | <b>Operating Temperature</b> | -20°C to 60°C (AC mode), -10°C to 50°C (Battery mode) |
| <b>Storage Temperature</b> | -30°C to 70°C (-22°F to 158°F) | <b>Shock</b>                 | 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.