

G900G7

8" ARM A78 + A55 Rugged Robotic Controller



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

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

System Specification

Processor	Genio 510 2 x A78 2.2GHz + 4 x A55 2.0GHz	Memory	4GB
Storage	64GB eMMC	Operating System	Android 13.0
WLAN	802.11a/b/g/n/ac/ax	BT	5.3
WWAN	4G LTE (Optional) 5G (Optional)	GNSS	GPS/GLONASS

Mechanical

Dimension	259.8 x 166.1 x 44.2 mm	Weight	1.1kg
Cooling System	Fanless Design		

IO Ports

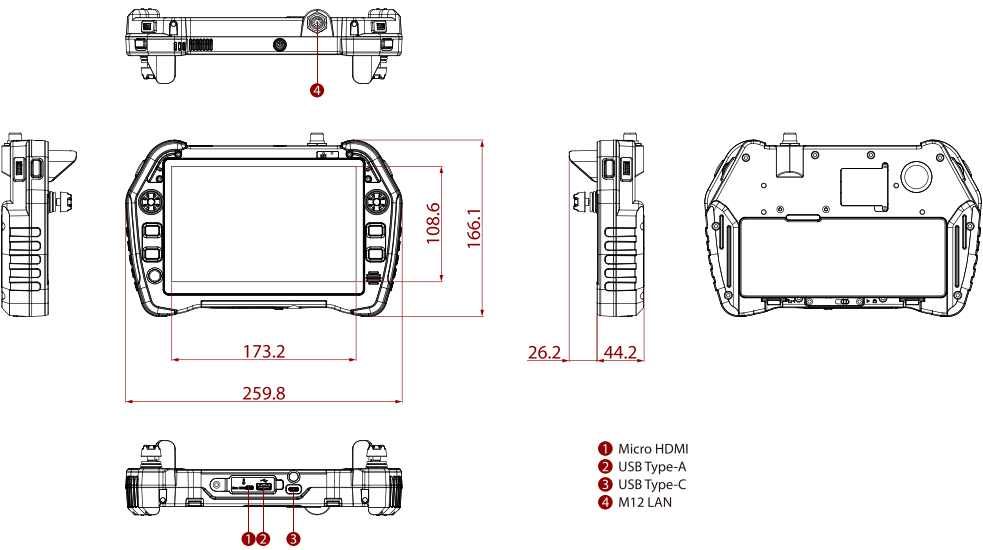
USB Port	1 x USB 3.0 (Type-A) 1 x USB 2.0 (Type C)	Video	1 x micro HDMI output
Audio	1x Speaker	LAN	1 x M12 LAN Connector (Mutually exclusive with Microhard RF Module)

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)
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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 2 x Roller switch 7 x buttons		
Power			
Battery	Standard : 11.4V, typ. 3500 mAh Lilon Removable Battery (3S1P) Optional : 11.4V, typ. 4750 mAh Lilon Removable Battery (3S1P)	Battery Operating Time	Standard Battery : 5.5hrs High Capacity Battery : 7.5hr
Power Rating	20V DC	Adapter	20V/5A PD Adapter
Accessory			
Accessory	1 x PD Adapter 100W 1 x M12 LAN External Cable 1 x Power Cord	Optional Accessory	Microhard pMDDL2450 (Mutually exclusive with LAN) High Capacity Battery

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.