

G900AD

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



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

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	Intel® Core™ i5-1235U 3.3GHz(up to 4.40 GHz)	Memory	8GB DDR5 SDRAM, up to 32GB
Storage	M.2 Gen4 256GB SSD, up To 2TB SSD	Security	Trusted Platform Module (TPM) 2.0
Operating System	Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise LTSC (64 bit) (Optional) Linux Ubuntu 22.04 (Optional)	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	1.2kg
Cooling System	Fan Design		

IO Ports

USB Port	1 x USB 3.0 (Type-A) 1 x USB 3.0 (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)
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
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Control

Button	2 x joystick 2 x Roller switch 7 x buttons
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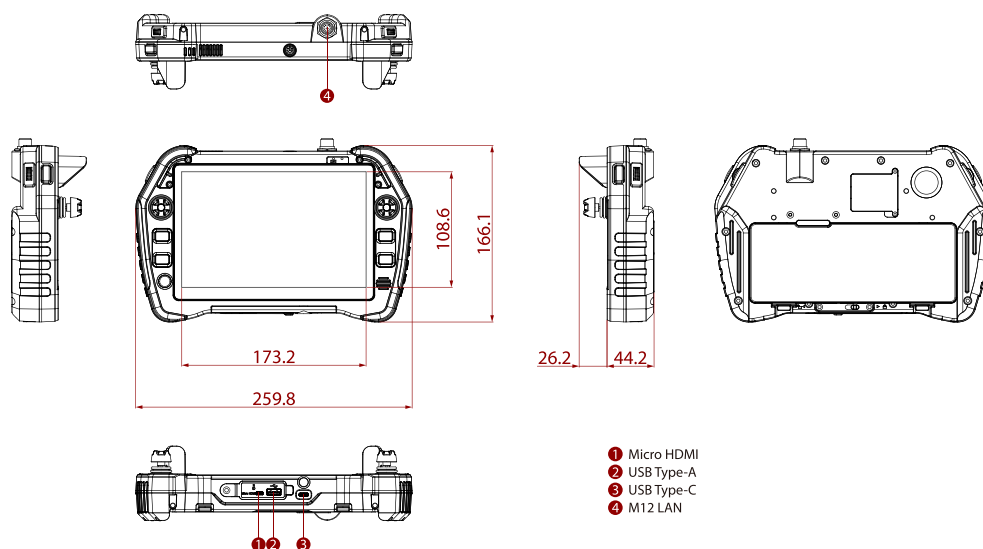
Power

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
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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.