

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 G900AD is a 8-inch Intel® Core™ i5-1235U Rugged Robotic Controller engineered for defense operations, field command, and mission-critical mobility. It combines Intel® Core™ i5-1235U, 8-inch display with 1920x1200 resolution, and IP65 to support reliable operation in harsh industrial environments. With Android, Linux, the G900AD helps OEMs, system integrators, and project teams deploy durable, configurable solutions for demanding field, factory, and mission-critical applications.

SPECIFICATIONS

Display

Bonding	Optical Bonding for Sunlight Viewability	Type	Projected Capacitive Multi Touch
Viewability	Anti-Glare treatment + MOSMITE™ film	Touch Mode	Support Hand / Gloves and Rain Mode
Resolution	1920x1200	Size	8.0 inches
Contrast Ratio	1000:1	Panel Brightness	700 nits (MOSMITE™ Enhanced, >1000-nit-class Sunlight Readability) nits
View Angles	85,85,85,85		

System Specification

Processor	Intel® Core™ i5-1235U 3.3GHz(up to 4.40 GHz)	Memory	8GB RAM, up to 32GB
Storage	128GB, 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 / 24.04 (Optional)	WLAN	Support
BT	Support	WWAN	4G LTE (Optional, mutually exclusive with RF Module) 5G (Optional, mutually exclusive with RF Module)
GNSS	GPS/GLONASS		

Mechanical

Dimension	259.8 x 166.1 x 44.2 mm	Weight	1.2kg
Cooling System	Fan Design		

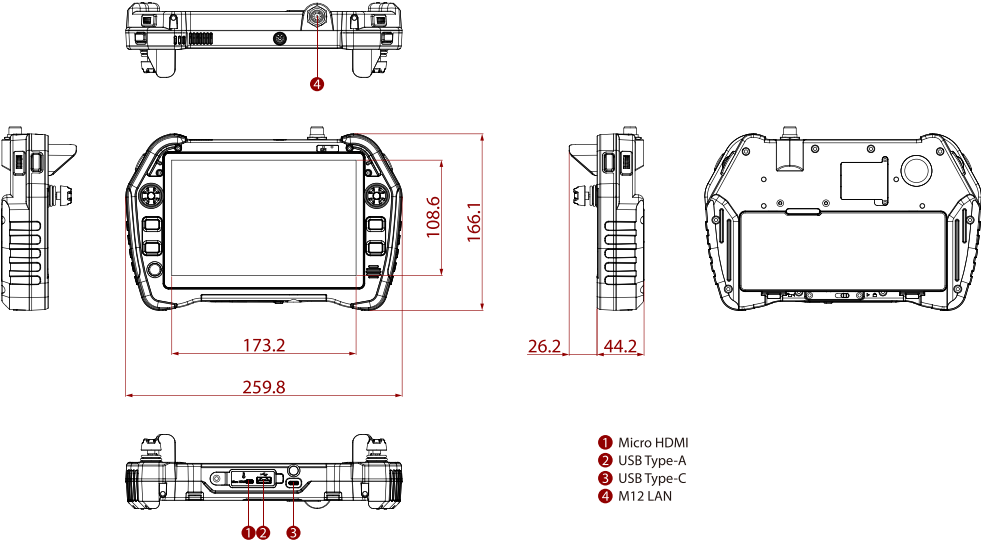
IO Ports

USB Port	1 x USB 3.0 (Type-A) 1 x USB 3.0 (Type C,PD)	Video	1 x micro HDMI output(Optional)
Audio	1x Speaker	LAN	1 x M12 LAN Connector (Mutually exclusive with RF Module) 1 x M10 Push-pull LAN Connector (Optional, mutually exclusive with 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		
Control			
Button	2 × Hall-effect Joysticks (Full self-centering; optional non-centering throttle axis) 7 × Momentary Push Buttons 2 × Hall-effect Roller Switches		
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 M10 Push-pull Type LAN Cable

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.
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