

G500G7

5.5" ARM A78 + A55 Rugged Robotic Controller



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KEY FEATURES

- 1920 x 1080 TFT LCD Panel with direct bonding
- Genio 510 2 x A78 2.0GHz + 4 x A55 2.0GHz
- All-weather, dust, and water-resistant design (IP65). MILgrade drop, Shock and vibration
- Compact and ergonomic design
- Supports WIFI/BT

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" to 10.1", these controllers support Windows, Android, and Linux, providing flexibility for various applications. Featuring IP65-rated water and dust resistance, along with MIL-grade shock and vibration protection, they are built for all-weather reliability. With PCAP touchscreens, Intel or ARM processors, Wi-Fi, Bluetooth, and optional 4G connectivity, these robotic controllers deliver robust performance in demanding environments.

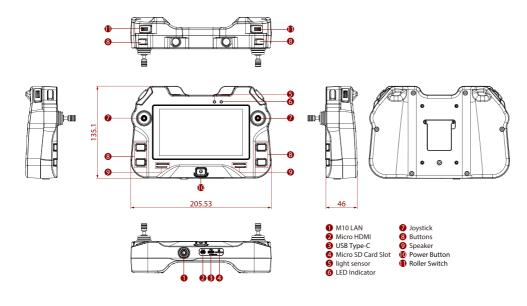
SPECIFICATIONS

Display				
Bonding	Optical Bonding for Sunlight Viewability	Resolution	1920x1080	
Size	5.5 inches	Contrast Ratio	1000:1	
Panel Brightness	1000.0 nits	View Angles	80,80,80,80	
Туре	Projected Capacitive Multi Touch	Viewability	Anti-Glare touch treatment	
Touch Mode	Support Hand / Gloves and Rain Mode			
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	Support	вт	Support	
Mechanical				
Dimension	204.2 x 135.1 x 46 mm	Weight	612g (One Battery Pack) 682g (Two Battery Pack)	
Cooling System	Fanless Design			
IO Ports				
USB Port	1 x USB 3.0 (Type C)	SD Card Slot	1 x Micro SD Card Slot (Max to 2TB)	
Video	1 x micro HDMI output	Audio	2x Speaker	
LAN	1 x M10 LAN Connector (10/100 Mbps , Max to 250 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 2 x Roller switch 7 x buttons		
Power			
Battery	One Battery Pack: 3.7V, typ. 3200mAh Rechargeable Lithium Battery (2S1P) Two Battery Pack: 7.4V / typ. 6400mAh Rechargeable Li-ion Battery (2S2P)	Battery Operating Time	One Battery Pack: 8hrs Two Battery Pack: 16hrs (optional)
Power Rating	19V DC	Adapter	100-240V, 50-60Hz / 19V DC
Accessory			
Accessory	1 x PD Adapter 65W	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.