

# G500G7

5.5" ARM A78 + A55 Rugged Robotic Controller



CE

FC

## 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). MIL-grade 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

<b>Bonding</b>	Optical Bonding for Sunlight Viewability	<b>Resolution</b>	1920x1080
<b>Size</b>	5.5 inches	<b>Contrast Ratio</b>	1000:1
<b>Panel Brightness</b>	1000.0 nits	<b>View Angles</b>	80,80,80,80
<b>Type</b>	Projected Capacitive Multi Touch	<b>Viewability</b>	Anti-Glare touch treatment
<b>Touch Mode</b>	Support Hand / Gloves and Rain Mode		

### 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

### Mechanical

<b>Dimension</b>	205.34 x 135.1 x 46 mm	<b>Cooling System</b>	Fan Design
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### IO Ports

<b>USB Port</b>	1 x USB 3.0 (Type C)	<b>SD Card Slot</b>	1 x Micro SD Card Slot (Max to 2TB)
<b>Video</b>	1 x micro HDMI output	<b>Audio</b>	2x Speaker
<b>LAN</b>	1 x M8 LAN Connector (10/100 Mbps , Max to 250 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
<b>Vibration</b>	MIL-STD-810H Method 514.8 Procedure I	<b>IP rating</b>	IP65

## Certification

Certification	CE, FCC
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## Control

Button	2 x joystick 2 x Roller switch 6 x buttons
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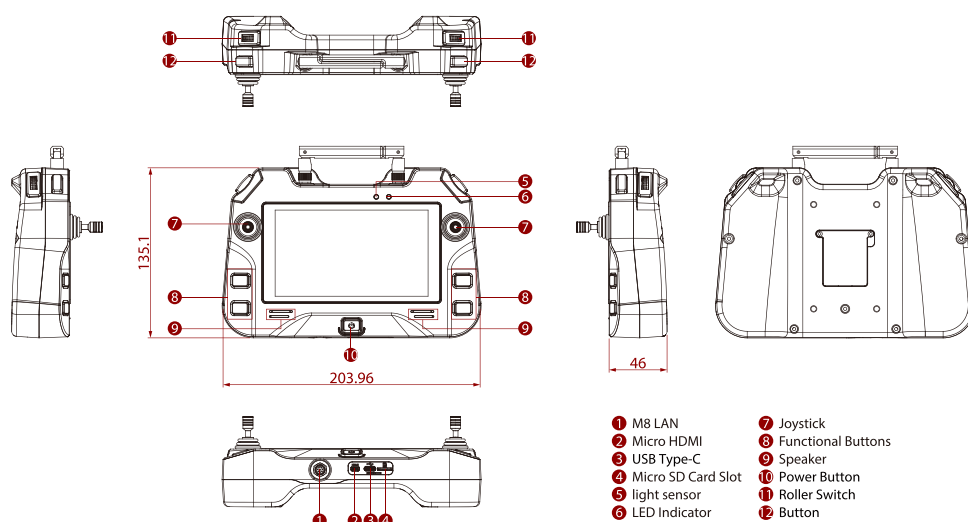
## Power

Battery	7.4V, typ. 2950mAh Lilon Rechargeable Internal Battery (2S1P)	Power Rating	19V DC
Adapter	100-240V, 50-60Hz / 19V DC		

## Accessory

Accessory	1 x Adapter 19V/65W 1 x M8 LAN external cable(2M) 1 x Power Cord	Optional Accessory	shoulder strap(Optional)
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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.