

G101G7

10.1" ARM A78 + A55 Rugged Robotic Controller



CE

FC

KEY FEATURES

- 10.1" 1920x1200 LED Panel with PCAP Touch
- Android 13.0/Linux Ubuntu
- 4G RAM + 64G eMMC
- ARM Genio 510 2 x A78 2.0GHz + 4 x A55 2.0GHz
- Supports WIFI, BT and optional 4G
- 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" to 10.1", 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. They perform 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/Rain, Stylus, Glove Mode
Resolution	1920x1200	Size	10.1 inches
Contrast Ratio	800:1	Panel Brightness	800 nits 1200 nits(Optional)
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	Security	Trusted Platform Module (TPM) 2.0
Operating System	Android 13.0 Linux Ubuntu	WLAN	Support
BT	Support	WWAN	4G (Optional)
GNSS	GPS/GLONASS	Sensors	Light Sensor

Camera

Front Camera	2MP Front Camera
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Mechanical

Dimension	369.35 x 221.5 x 67.3 mm	Weight	2.4kg
Cooling System	Fan Design		

IO Ports

USB Port	1 x USB 2.0	SD Card Slot	1 x Micro SD Card Slot (Max to 2TB)
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Video	2 x micro HDMI output	Audio	1x Speaker
LAN	1 x M8 LAN Connector (10/100 Mbps , Max to 250 Mbps) 1 x M10 Push Pull Connector (optional)		

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	Left Side: 1x joystick 2x roller switch 1x 2 band toggle switch 4x button (front side) 1x control button (rear side) Right Side: 1x joystick 1x roller switch 5x button (front side) 1x power button 1x 2 band toggle switch 1x control button (rear side)
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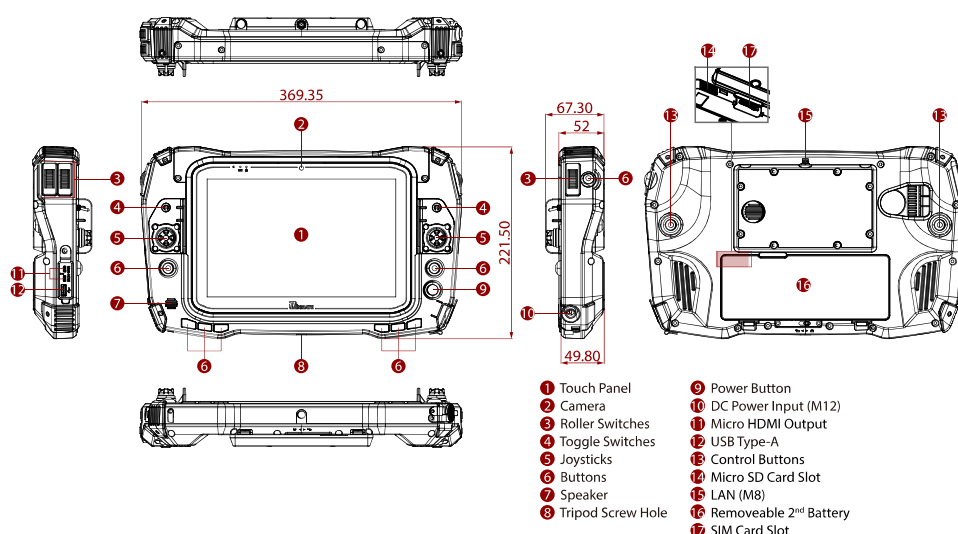
Power

Battery	11.4V, typ. 3500 mAh Lilon Rechargeable Internal Battery (3S1P) 11.4V, typ. 3500 mAh Lilon Rechargeable Secondary Battery (3S1P)	Power Rating	19V DC
Adapter	100-240V, 50-60Hz / 19V DC		

Accessory

Accessory	1 x Adapter and Power Cord 1 x M8 LAN external cable 1 x M12 Power Adapter 1 x Standard Battery	Optional Accessory	Battery Charger (Optional) Shoulder Strap(Optional) High Capacity Battery (optional) M10 Push Pull Connector (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.