

TG900G7

8" ARM A78 + A55 Android Rugged Tablet Controller



CE

FC

KEY FEATURES

- 8" 1920 x 1200 IPS LED Panel with direct optical bonding
- 4GB RAM + 64GB eMMC
- ARM Genio 510 2 x A78 2.0GHz + 4 x A55 2.0GHz
- Supports WIFI, BT, and optional 4G/5G
- Sunlight readable with antiglare solution
- All-weather, dust, and water-resistant design (IP65). MIL-grade drop, Shock and vibration

INTRODUCTION

Winmate's 8-inch Android rugged tablet controller is designed for reliable operation in demanding environments. Its 1920 × 1200 IPS LED panel with direct optical bonding and antiglare technology ensures clear outdoor visibility. Equipped with the ARM Genio 510 processor, 4GB RAM, and 64GB eMMC, it balances performance and efficiency for mobile workflows. Certified to IP65 and MIL-STD standards, and supporting Wi-Fi, Bluetooth, and optional 4G/5G, it delivers dependable communication in the field.

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	Genio 510 2 x A78 2.2GHz + 4 x A55 2.0GHz	Memory	4GB
Storage	64GB eMMC	Operating System	Android 13.0
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	1.1kg
Cooling System	Fanless Design		

IO Ports

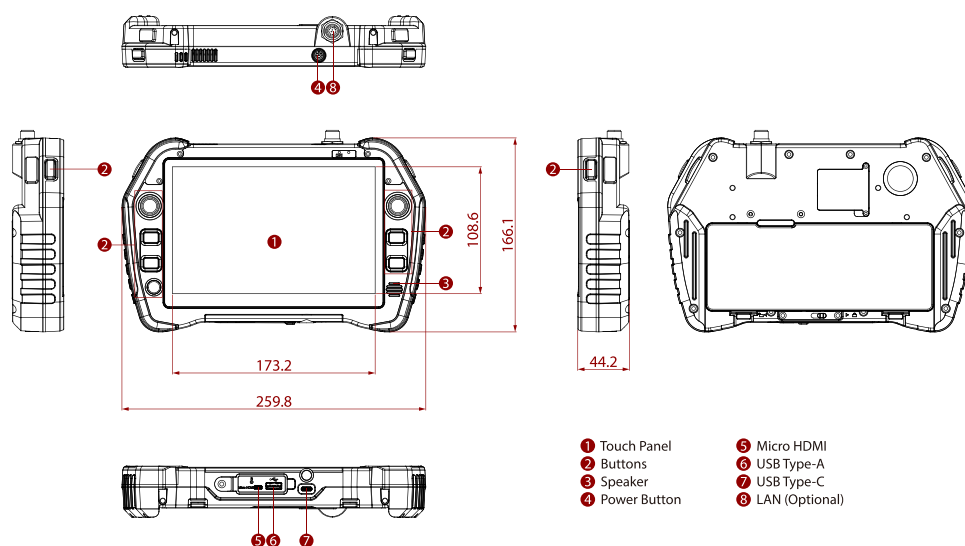
USB Port	1 x USB 3.0 (Type-A) 1 x USB 2.0 (Type C)	Video	1 x micro HDMI output
Audio	1x Speaker		

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)
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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	8 x Buttons		
Power			
Battery	11.4V, typ. 3500 mAh Lilon Removable Battery (3S1P)	Power Rating	20V DC
Adapter	20V/5A PD Adapter		
Accessory			
Accessory	1 x PD Adapter 100W 1 x Power Cord	Optional Accessory	M12 LAN (10/100 Mbps , Max to 250 Mbps)

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.