

TG500G7

5.5" ARM A78 + A55 Android Rugged Tablet 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

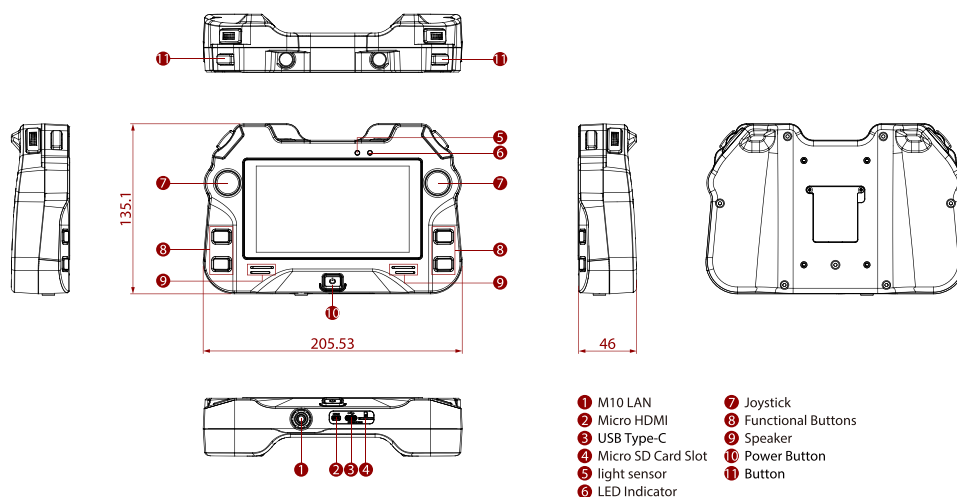
Winmate's 5.5-inch Android rugged tablet controller offers portable performance in a compact design for frontline mobility. It's 1920 × 1080 TFT LCD panel with direct bonding delivers sharp visuals, while the ergonomic form factor ensures ease of use in the field. Powered by the Genio 510 processor with Android OS, it supports reliable connectivity via Wi-Fi and Bluetooth. Built to IP65 and MIL-STD standards, this device withstands dust, water, drops, shock, and vibration for dependable all-weather durability.

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
Type	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	BT	Support
Mechanical			
Dimension	204.2 x 135.1 x 46 mm	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	8 x Buttons		
Power			
Battery	3.7V, typ. 3200mAh Rechargeable Lithium Battery (2S1P)	Battery Operating Time	8hrs (2 batteries) 16hrs (4 batteries)
Power Rating	19V DC	Adapter	100-240V, 50-60Hz / 19V DC
Accessory			
Accessory	1 x PD Adapter 100W 1 x M10 LAN external cable(2M) 1 x Power Cord 2 x Antenna (optional for RF module)	Optional Accessory	Shoulder Strap(Optional) Microhard 2450 (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.