

TG101AD

10.1" Intel® Core™ i5-1235U Windows Rugged Tablet Controller



KEY FEATURES

- 10.1" 1920 x 1200 IPS LED Panel with direct optical bonding
- Intel® Core™ i5-1235U processor
- All-weather, dust, and water-resistant design (IP65). MIL-grade drop, Shock and vibration
- Supports WIFI, BT and optional 4G/5G
- With one removable battery

INTRODUCTION

Winmate TG101AD is a 10.1-inch Intel® Core™ i5-1235U Windows Rugged Tablet Controller engineered for field service, inspection, and industrial mobility. It combines Intel® Core™ i5-1235U, 10.1-inch display with 1920x1200 resolution, and IP65 to support reliable operation in harsh industrial environments. With 10.1" 1920 x 1200 IPS LED Panel with direct optical bonding, the TG101AD helps OEMs, system integrators, and project teams deploy durable, configurable solutions for demanding field, factory, and mission-critical applications.

SPECIFICATIONS

Display

Resolution	1920x1200	Size	10.1 inches inches
Contrast Ratio	800:1	Panel Brightness	800.0 nits nits
View Angles	85,85,85,85	Bonding	Optical Bonding for Sunlight Viewability
Type	Projected Capacitive Multi Touch	Viewability	AG+AF touch treatment

System Specification

Processor	Intel® Core™ i5-1235U 3.3GHz(up to 4.40 GHz)	Memory	8GB RAM, up to 32GB
Storage	128GB, up To 2TB SSD	Security	Trusted Platform Module (TPM) 2.0
Operating System	Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise LTSC (64 bit) (Optional) Linux Ubuntu 22.04 / 24.04 (Optional)	WLAN	Support
BT	Support	WWAN	4G LTE (Optional) 5G (Optional)
GNSS	GPS/GLONASS		

Mechanical

Dimension	317.75 x 188.87 x 35.8 mm	Weight	1.6kg
Cooling System	Fan Design		

IO Ports

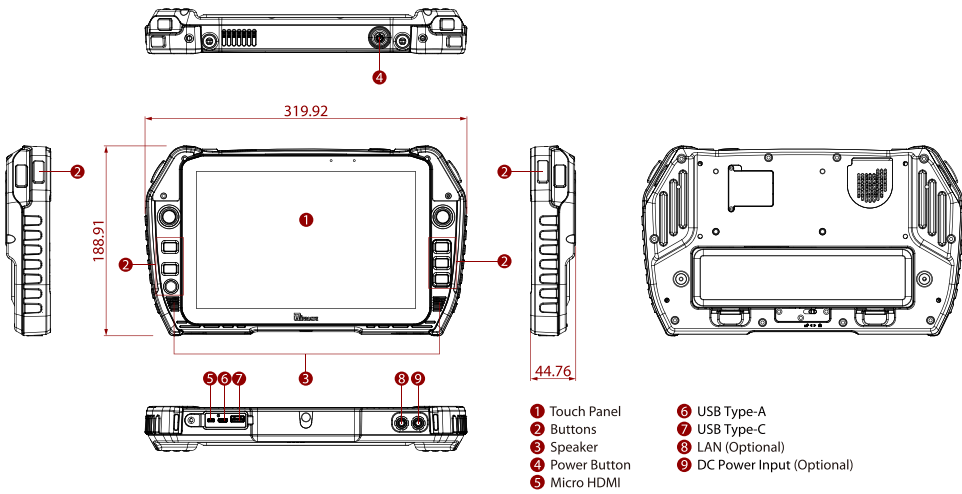
USB Port	1 x USB 3.0 (Type-A) 1 x USB 3.0 (Type C)	Video	1 x micro HDMI output(Optional)
Audio	2x Speaker		

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	10.9 V, typ. 6700 mAh Lilon Removable Battery (3S2P)	Battery Operating Time	Standard Battery : 10.5hrs
Power Rating	19V DC	Adapter	PD Adapter 100W
Accessory			
Accessory	1 x PD Adapter 100W 1 x Power Cord	Optional Accessory	M10 Push-pull Power Cable, DC Plug Type M10 Push-pull LAN (Mutually exclusive with Microhard RF Module) Microhard pMDDL2450 (Mutually exclusive with LAN)

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.