

TG101AD

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



CE

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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's 10.1-inch Windows rugged tablet controller combines high performance and durability for mission-critical use. Its 1920 × 1200 IPS LED panel with direct optical bonding and antiglare, sunlight-readable design ensures clear visibility outdoors. Powered by the Intel® Core™ i5-1235U processor with Windows OS, it provides secure computing and reliable connectivity via Wi-Fi, Bluetooth, and optional 4G/5G. Certified to IP65 and MIL-STD standards, it withstands dust, water, drops, shock, and vibration for dependable all-weather operation.

SPECIFICATIONS

Display

Resolution	1920x1200	Size	10.1 inches
Contrast Ratio	800:1	Panel Brightness	800.0 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 DDR5 SDRAM, up to 32GB
Storage	M.2 Gen4 256GB SSD, up To 2TB SSD	Operating System	Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise LTSC (64 bit) (Optional) Linux Ubuntu 22.04 (Optional)
WLAN	802.11a/b/g/n/ac/ax	BT	5.3
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

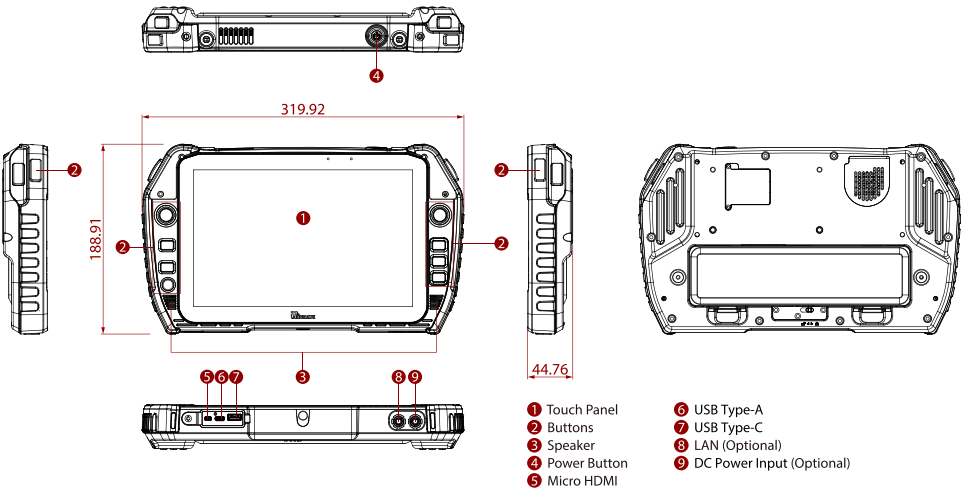
USB Port	1 x USB 3.0 (Type-A) 1 x USB 3.0 (Type C)	Video	1 x micro HDMI output
Audio	2x Speaker		

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)
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	10 x Buttons		
Power			
Battery	10.9 V, typ. 6700 mAh Lilon Removable Battery (3S2P)	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 (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.