

TG101Q9

10.1" Qualcomm® 6490 Android Rugged Tablet Controller



CE

FC

KEY FEATURES

- 10.1" 1920 x 1200 IPS LED Panel with direct optical bonding
- Qualcomm® 6490 (Octa-core 2.7 GHz) 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 Android rugged tablet controller combines a 1920 × 1200 IPS LED panel with direct optical bonding for sharp visuals and sunlight readability. Powered by the Qualcomm® 6490 octacore processor, it delivers strong mobile performance for harsh environment applications. With IP65 protection and MIL-STD durability, it withstands dust, water, drops, shock, and vibration. Featuring Wi-Fi, Bluetooth, optional 4G/5G, and a removable battery, it ensures seamless connectivity and uninterrupted mobility.

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 | Qualcomm® 6490 (Octa-Core 2.7GHz) | Memory | 8 GB |
| Storage | 128GB | 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 | 317.75 x 188.87 x 35.8 mm | Weight | 1.4kg |
| Cooling System | Fanless Design | | |

IO Ports

| | | | |
|----------|--|-------|-----------------------|
| USB Port | 1 x USB 2.0 (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

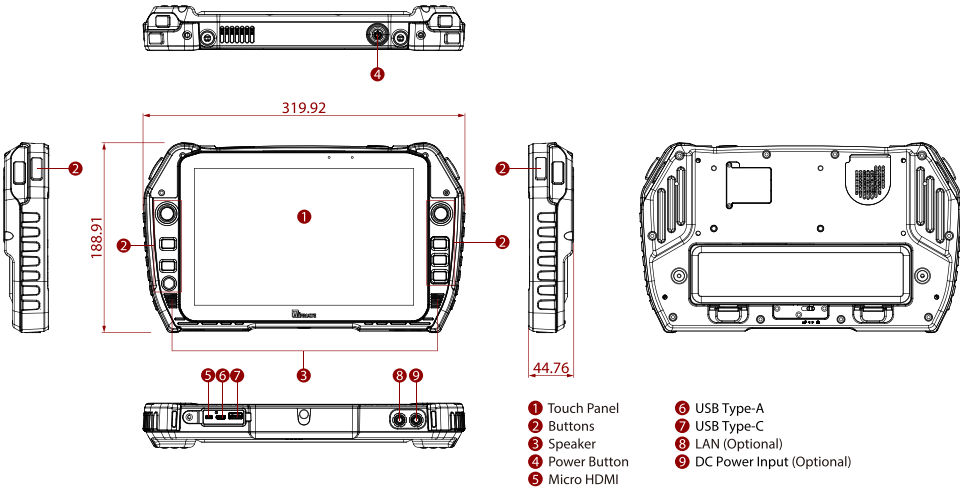
Power

| | | | |
|---------|--|--------------|--------|
| 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 (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.