

G101Q9-A

10.1" Qualcomm® 6490 Rugged Robotic 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

The 10.1" Qualcomm® 6490 Rugged Robotic Controller is a new embedded system. It is made for autonomous robots, edge AI, and industrial control. This rugged controller uses the Qualcomm® QCS6490 processor. It has an AI Engine, supports 5G and 4G, and has advanced GPU and ISP features. It provides real-time performance for AGVs, AMRs, machine vision, and mobile HMI deployments. This device has a fanless IP65 design. It features a PCAP touchscreen and works in a wide temperature range. It also has many I/O connections. This makes it great for tough industrial settings and smart edge computing.

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

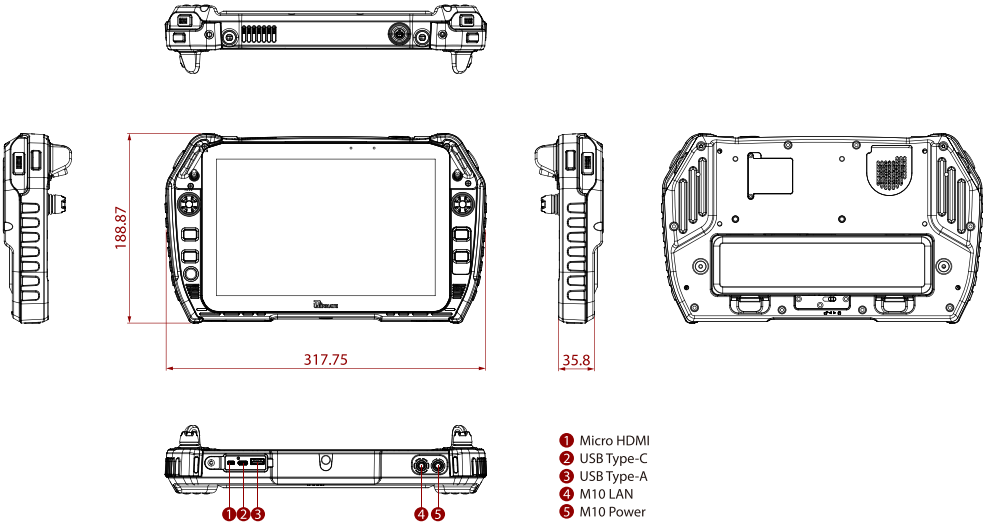
USB Port	1 x USB 2.0 (Type-A) 1 x USB 3.0 (Type C)	Video	1 x micro HDMI output
Audio	2x Speaker	LAN	1 x M10 LAN Connector (Mutually exclusive with Microhard RF Module)

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	Left Side: 1 x Two Band Toggle Switch 1 x Joystick 1 x Roller switch 4 x Buttons Right Side: 1 x Two Band Toggle Switch 1 x Joystick 1 x Roller switch 3 x Buttons 4 x Buttons (Optional)		
Power			
Battery	10.9 V, typ. 6700 mAh Lilon Removable Battery (3S2P)	Battery Operating Time	Standard Battery : 10.5hrs
Power Rating	19V DC	Adapter	100-240V, 50-60Hz / 19V DC
Accessory			
Accessory	1 x Adapter 120W 1 x M10 Push-pull Power Cable, DC Plug Type 1 x M10 Push-pull LAN 1 x Power Cord	Optional Accessory	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.