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-core2.7 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	Support	BT	Support
WWAN	4G LTE (Optional) 5G (Optional)	GNSS	GPS/GLONASS

Mechanical

Dimension	317.75 x 188.87 x 35.8 mm	Cooling System	Fan Design

IO Ports

USB Port	1 x USB 3.0 (Type-A) 1 x USB 3.1 (Type C)	Video	2 x micro HDMI output
Audio	2x Speaker	LAN	1 x M8 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

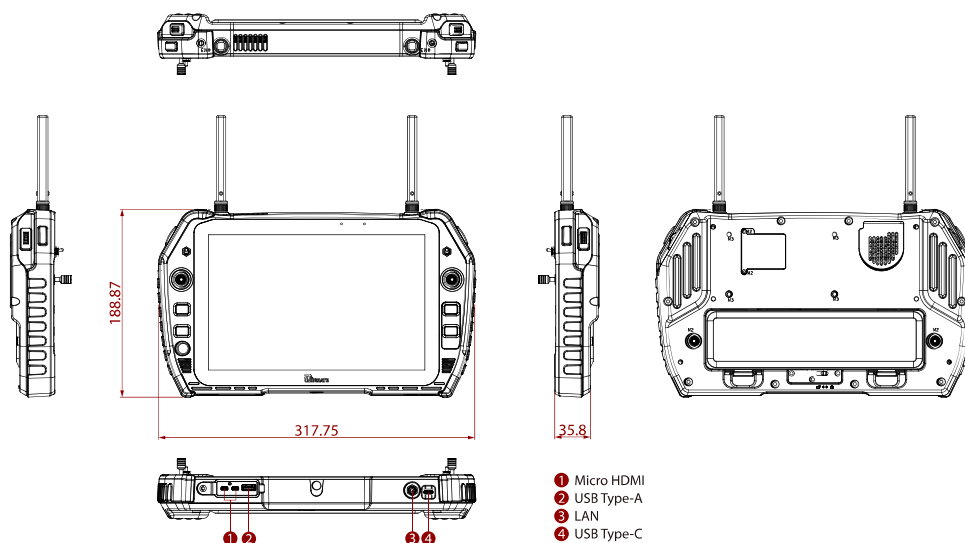| Button	2 x Toggle Switch 2 x joystick 2 x Roller switch 6 x buttons

Power

Battery	10.9 V, typ. 6700 mAh LiIon Removable Battery (3S2P)	Power Rating	1 x USB (Type C) (Charging)
Adapter	PD Adapter 100W		

Accessory

Accessory	1 x PD Adapter 100W 1 x M8 LAN external cable(2M) 1 x Power Cord	Optional Accessory	shoulder strap(Optional)

DIMENSIONS UNIT:MM

188.87

317.75

35.8

❶ Micro HDMI
❷ USB Type-A
❸ LAN
❹ USB Type-C

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.

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