

# RUGGON

## VULCAN 10A

Rugged 10.4" Android Vehicle Mount Computer



### Overview

The VULCAN 10A sets a new standard for vehicle mount computing in challenging industrial environments. Running Android 14 with GMS certification and powered by the advanced Qualcomm C6490 CPU supporting up to 12 TOPs AI performance, it combines reliable connectivity, sunlight-readable display, and robust construction for demanding warehouse, port, and mining operations.

### Key Features

- ◆ Qualcomm® C6490 CPU: 12 TOPs AI, Android 14 GMS certified
- ◆ 10.4" 1200-nit high brightness supports auto-dimming with glove and rain mode, optional screen defroster
- ◆ IP66 & MIL-STD-810H certified; operates from -30°C to 60°C
- ◆ CANBus, serial ports and extensive I/O for versatile integration
- ◆ Wi-Fi 6, fast roaming, 4G LTE & 5G, GNSS
- ◆ Wide 9-60V power input with intelligent power management

### Product Introduction

VULCAN 10A delivers exceptional reliability and performance for mission-critical fleet management and industrial vehicles. Its sunlight-readable 10.4" touchscreen and IP66/MIL-STD-810H ruggedness ensure reliable operation in extreme conditions, while advanced wireless options keep your assets always connected. The Android 14 platform with GMS certification guarantees compatibility and secure system integration, and the high-performance CPU enables real-time AI features for smart logistics.

Flexible by design, VULCAN 10A offers CANBus, serial ports, Gigabit Ethernet, and waterproof M12 connectors. Its modular I/O layout and wide power input adapt seamlessly to diverse use cases, optimizing uptime and mobility across industrial fleets.



## Ports

Enables efficient crane and material handling with rugged design and stable network performance.



## Warehouse Logistics

Enhances forklift productivity with reliable connectivity and durable operation in busy warehouse environments.



## Mining

Built to withstand vibrations and harsh conditions, supporting mining vehicle tracking and communication.



## Specifications

### System

- ◆ Qualcomm® QCS™ 6490 Octa-Core, 2.7GHz
- ◆ 8GB LPDDR4x SDRAM
- ◆ 128GB UFS storage
- ◆ Built-in 6-axis G-sensor, dual speaker
- ◆ OS : Android 14, Google Mobile Services (GMS) certified

### Display

- ◆ 10.4" XGA TFT LCD with LED backlight (1024 x 768)
- ◆ 1200 nits brightness supports auto-dimming
- ◆ PCT touchscreen supports glove and rain mode

### Communication

- ◆ Wi-Fi 802.11 ax & 802.1 v/r/k (Fast Roaming)
- ◆ Bluetooth V5.2
- ◆ Optional 4G LTE / HSPA+ / GPRS / 5G (Telit/Sierra)
- ◆ Optional GNSS (GPS/Galileo/GLONASS/BeiDou)

### I/O Interface

- ◆ RS-232 with power supported x 1
- ◆ RS-232(TX,RX)/422/485 x 1, RS-232(TX,RX) x 2, RS-485 x 2
- ◆ Gigabit Ethernet x 1
- ◆ USB 3.1 x 1, USB 2.0 x 2, USB 3.1 type C x 1 (DP Alt Mode supported)
- ◆ Micro SD slot x 1, Micro SIM slot x 1, eSIM x 1
- ◆ CAN bus 2.0B or SAE J1939 x 1
- ◆ DI x 2, DO x 2, Mic in x 2, Line out (L/R) x 1
- ◆ Optional video input

### Function Button

- ◆ Programmable button x 7, brightness adjustment x 2, volume adjustment x 2, display on/off x 1
- ◆ Optional defrost/ defog button x 1

### Certifications

- ◆ CE, FCC, CB

### Power management

- ◆ 9~60 VDC input
- ◆ Ignition sense with delay on/off setting
- ◆ Wake on RTC
- ◆ Internal battery for graceful shutdown

### Rugged Features

- ◆ IP66, MIL-STD-810H, IEC 60721-3-5 class 5M3
- ◆ Operating temperature : -30°C to 60°C

### Durability

- ◆ Operating temperature: -30oC to +60oC
- ◆ Storage temperature: -30oC to +70oC
- ◆ Humidity: 95%, non-condensing

### Dimensions & Weight

- ◆ 276 x 234 x 57 (mm), 3.2kg