CFDEVICE



RUGGED VEHICLE MOUNT COMPUTER

VCM M12

10.1" high-compute AI tablet with 12 TOPS, full-mode communication, AVM 360° and DMS

10.1" 1280×800	**12 TOPS AI**
Android 14 / Linux 5.4	**4G / 5G**
8× AHD	**IP65**
5–36V	

KEY FEATURES

- Qualcomm QCM6490 octa-core SoC with up to 12 TOPS AI
- 8 camera inputs supporting CF AVM 360° and CF DMS
- 4G/5G, Wi-Fi, Bluetooth 5.2, 433 MHz wireless and Gigabit Ethernet
- Push-to-talk hand mic (optional), CAN bus and serial ports
- 5 programmable keys + power key on the front panel
- Optional high-precision positioning: built-in GNSS or external UM982

VCM M12 Specifications

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System

SoC	Qualcomm QCM6490 / SRM955, octa-core 64-bit
GPU	Adreno 643; OpenGL ES 3.2, OpenCL 2.0, Vulkan 1.x
AI	Up to 12 TOPS
Memory	8GB RAM
Storage	128GB UFS, TF card expansion
OS	Android 14.0 / Linux kernel 5.4.254

Display

Screen	10.1" capacitive multi-touch
Resolution	1280×800, 750 cd/m²
Features	Anti-glare, ambient light sensing

Communication

Cellular	4G / 5G
Wi-Fi	2.4 GHz & 5.8 GHz
Bluetooth	5.2
Other	433 MHz wireless; push-to-talk hand mic (optional)
GNSS	Optional: built-in Qualcomm GNSS or external UM982, by configuration

Interfaces

CAN	CAN×2
Serial	RS232×2, RS485×1
I/O	12V DC output×2, IO input×2, ADC voltage detection×2
USB	USB 2.0×1
Ethernet	Gigabit×1 (DHCP / static IP)
Camera	AHD 720p×8 / 1080p×8

Audio

Audio	Mic input, built-in speaker, external audio output

Power

Input	5–36V DC
Management	ACC detection, supply-voltage detection, reverse-polarity protection, backup power on power loss

Rugged

Protection	IP65
Vibration / shock	MIL-STD-810
Road vehicle standard	ISO 16750
Operating temperature	-30°C to +70°C
Storage temperature	-40°C to +85°C
Humidity	0–90% RH (operating), 30–95% RH (storage)
Salt spray	48 hours, whole device

Mechanical

Dimensions (W×H×D)	270.9 × 173.5 × 33.2 mm
Weight	1.3 kg
Buttons	5 GPIO function keys + power key
Connectors	26PIN×2, SMA×2, TNC×3, USB Type-A×1

SOFTWARE ISOBUS VT: Supported · AVM 360°: Supported · DMS: Supported · MDM: Compatible

APPLICATIONS Precision Agriculture · Construction Machinery · Smart Transportation · Smart Mining · Industrial Control · Warehouse · Bridge Monitoring · Smart Port · Medicine Production