CFDEVICE



RUGGED VEHICLE MOUNT COMPUTER

VCM V12 PRO

12.1" high-performance tablet with 4 SocketCAN, up to 8 cameras and AVM 360°

12.1" 1280×800	**1 TOPS (0.8T NPU)**
Android 11 / Linux 5.10	**4G / 5G**
4× SocketCAN	**IP67**
5–36V	

KEY FEATURES

- Dual 26PIN interfaces for rich, versatile connections
- 4 SocketCAN buses (J1939, CANopen, ISO15765)
- Up to 8 AHD cameras with CF AVM 360° surround view
- ADC-in voltage and current (4–20 mA) detection
- Gigabit Ethernet and 4G/5G connectivity
- Optional 16-LED light bar

VCM V12 PRO Specifications

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System

CPU	Quad-core Cortex-A55, 2.0 GHz
GPU	ARM G52 2EE; OpenGL ES 1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1
NPU	1 TOPS (0.8T NPU)
Memory	2GB LPDDR4 (up to 8GB)
Storage	16GB eMMC (up to 128GB)
OS	Android 11.0 / Linux kernel 5.10

Display

Screen	12.1" 5-point capacitive touch
Resolution	1280×800, >750 nits
Features	Anti-glare under strong sunlight

Communication

Cellular	4G / 5G
Wi-Fi	802.11 b/g/n/ac, 2.4/5 GHz
Bluetooth	4.2
GNSS	MXT906B / UM980 / P20E / UM982 / P20D (optional)

Interfaces

CAN	SocketCAN×4
Serial	RS232×2 or RS232×1 + RS485×1 (default); debug RS232
I/O	ADC voltage×2 (max 12V), ADC current×2 (4–20 mA), 12V DC output×4, IO input×4
USB	USB 2.0×1
Ethernet	Gigabit×1
Camera	AHD up to 1080P×6 / 720P×8 / 720P×4 + 1080P×4

Audio & sensors

Audio	Mic×1; built-in speaker×1 or external speakers×2 or 2-channel audio output
Sensor	G-sensor×1

Power

Input	5–36V DC
Management	ACC ignition detection, supply-voltage detection, under/over-voltage and reverse-voltage protection

Rugged

Protection	IP67
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
Salt spray	48 hours

Mechanical

Dimensions (W×H×D)	317.8 × 219.6 × 34.5 mm
Weight	1.73 kg
Buttons	2 function keys + power key
Connectors	26PIN×2, M12 X-Code×1, SMA×1, TNC×1
Options	16-LED light bar

SOFTWARE ISOBUS VT: Supported · AVM 360°: Supported · DMS: Contact CF-Device · MDM: Compatible

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