VCM V7-2

REVOLUTIONARY RUGGED VEHICLE TABLET

Powerful 1 TOPS Performance

Super Fast 5G Communication

| 1 TOPS | Dual Systems | 5G Comm-unication | CAN CAN FD | Ultra-Thin Bezel Anti-Glare Display | IP67 | Gigabit Ethernet | ADC |

CFDEVICE

Industry-Leading Anti-Glare Full Display

7" 5-point capacitive touch screen
Above 750 nits
Resolution 1024*600P
Anti-glare display under strong sunlight
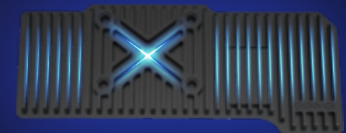
Sensitive Ultra-Link 5G Pioneer

Support 4G/5G wireless communication
Ensure high-quality communication in low-density and weak signal coverage areas
CP self-developed built-in antenna

Unrivalled Processing Capabilities

CPU quad-core 64 bit
Cortex-A55, 2.0GHz
GPU ARM G52 2EE
Support OpenGL ES1.1/2.0/3.2
OpenCL 2.0, Vulkan 1.1
High-performance 2D acceleration hardware
1 TOPS

CP-Comm High-Speed Bus Architecture

Strong performance with stable, superior communication
Multiple platforms operational: supporting OS (Android/Linux), Soc (Rockchip, Allwinner, Qualcomm)
Component-based software development
Easy to integrate new industry protocol and physical bus

Ultra-Thin Body Cool Sink

Industrial design
As thin as 30+mm unprecedented ultra-thin body
Optimized heat transfer with 18561.4mm2 large cooling area

IP67 Enhanced Protection

Dust tight: completely preventing dust coming in
Protection from Waves: when subjected to violent waves or strong water jets, the water inflow is harmless

Cool Sink *Cooling Design*

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REVOLUTIONARY RUGGED VEHICLE TABLET

Product Specs

System
- CPU Quad-Core 64 Bit Cortex-A55，2.0GHz
- GPU ARM G52 2EE,
- Support OpenGL ES1.1/2.0/3.2,
- OpenCL 2.0, Vulkan 1.1,
- High-Performance 2D Acceleration Hardware
- 1 TOPS（NPU Supports 0.8 TOPS）
- Support Android 11.0
- Support Linux 5.10, Qt 5.15.7
- Support 2G RAM LPDDR4, Up to 8G
- Support 16G ROM EMMC, Up to 256G

Commu-nication & Sensor
- MIC *1
- Built-in Speaker *1
- External Speakers
- USB3.0 Interface *1
- Gigabit Ethernet *1
- G-Sensor *1
- LTE 4G/5G Communication Module
- WIFI 802.11b/g/n, 2.4G
- Bluetooth 4.2
- Centimeter-level GNSS (Optional)

Rugged Feature
- Protection Level: IP67
- Vibration: MIL-STD-810
- Road Vehicle Standard: ISO16750
- Operation Temperature: -30℃-+70℃,
- Humidity: 0% - 90%H;
- Storage Temperature: -40℃ - +85℃,
- Humidity: 30% - 95%RH;
- Salt spray: 48 Hours of Salt Spray Test

Button
- 2 Buttons: Turning On/Off, Firmware Management, Funtion Customization

Display
- 7" 5-Point Capacitive Touch Screen
- Above 750 Nits
- Resolution: 1024*600P
- Anti-Glare Display under Strong Sunlight

Power
- 5-36V DC Input
- ACC Ignition Detection
- Power Supply Voltage Detection
- Under and Over Voltage Protection
- Reverse Voltage Protection

I/O Interface
- CAN *3（CAN *2，CAN FD *1）
- Up to RS232 *3
- RS485 *1
- ADC_IN Detection *2, Max. INPUT 12V
- DC_OUTPUT 12V *2
- IO_INPUT *2
- Up to AHD Camera *4

Connector
- 26PIN Connector *1
- M12 X-Code Aviation Plug *1
- SMA Female Connector *1
- TNC Female Connector *1

Light Bar
- LED Light Bar，LED Lights *16

Mechanical Spec
- Dimensions: 200*134*32.52mm
- Weight: 0.69kg

Installation
- Easy to Install with Vehicle RAM Mount on the Console or Any Other Surface of Farming Machines and Engineering Machines, etc.
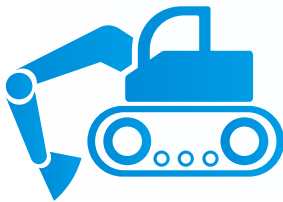
Applications

Farming Machine Automation

One platform supports two operating systems
On-demand development
Various sensitive communication interfaces
Strong performance in most complex applications
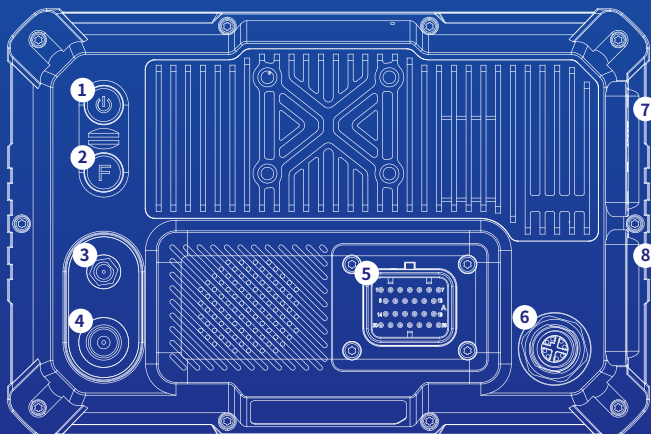Enhanced display against water, dust and sunlight

Engineering Machine Automation

CP-Comm high-speed bus architecture
More precise positioning
Multiple SKUs to match your business
High-temperature tolerant, salt mist resistant
and shock-proof

HMI

One Platform supports two operating systems
On-demand development
Diverse interfaces for easier application
Sensitive and stable communication

1. ON/OFF Button
2. Customizable Button
3. Reserved 4G/5G External Antenna Interface
4. GNSS Antenna Interface
5. CAN *3（CAN 2.0B *2，CAN FD *1）
   Up to RS232 *3
   RS485 *1
   ADC_IN *2
   DC_OUPUT *2
   IO_INPUT *2
   Up to AHD Camera *4
6. Gigabit Ethernet
7. External SIM Card Sink *1
8. USB 3.0 *1

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