



# APOLLO 12 GEN2

*The Most Revolutionary Vehicle Mount Computer Ever Created*

**EXCELLENT 1 TOPS PERFORMANCE**

**SUPER FAST 5G CONNECTIVITY**



1 TOPS



Dual Systems



5G Comm-  
unication



CAN  
CAN FD



Ultra-Thin Bezel  
Anti-Glare Display



IP67



Gigabit  
Ethernet



ADC

### STUNNING ANTI-GLARE DISPLAY

12" Capacitive Multi-Touch Screen  
Ultra-Bright 750+ Nits  
Sleek Bezel-less Design  
Crisp 1280x800P Resolution  
Anti-Glare Display

### FLEXIBLE CP-COMM ARCHITECTURE

Strong Performance, Superior Communication  
Multiple-Platform Support: OS (Android/Linux), Soc (Rockchip, Allwinner, Qualcomm)  
Component-Based Software Development  
Simplified Expansion & Integration

### ROBUST IP67 PROTECTION

Dustproof: Complete Dust Ingress Prevention  
Water Resistant: Safeguarded Against Powerful Water Jets & Waves

### INTUITIVE CONNECTIVITY 5G PIONEER

Seamless 4G/5G Wireless Connectivity  
Exceptional Quality in Low-Signal Areas  
Integrated Antenna & Gigabit Ethernet  
SocketCAN Support

### UNRIVALLED CAPABILITIES

Quad-Core 64-bit Cortex-A55 CPU (2.0GHz)  
ARM G52 2EE GPU  
Advanced Graphics: OpenGL ES1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1  
High-Speed 2D Acceleration & 1 TOPS Computing Power

Cutting-Edge Industrial Aesthetics  
Slim 30+mm Profile  
Efficient Heat Management with 18561.4mm<sup>2</sup> Dissipation Area

### SLEEK & ULTRA-THIN DESIGN



\* CP Cool Sink Cooling Technology

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# Product Specs

<p><b>System</b></p>	<p>Quad-Core Cortex-A55 CPU (2.0GHz)                  ARM G52 2EE GPU                  OpenGL ES1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1 Support                  High-Performance 2D Acceleration                  1T Computing Power (0.8T NPU Support)                  Flexible OS &amp; Storage Options:                  _____                  Android 11.0 Support                  Linux Kernel 5.10                  2GB RAM LPDDR4 (Up to 8GB)                  16GB ROM EMMC (Up to 256GB)</p>	<p><b>Display</b></p>	<p>12" 5-Point Capacitive Touch Screen                  Above 750 Nits                  Resolution: 1280*800P                  Anti-Glare Display</p>
<p><b>Communication &amp; Sensor</b></p>	<p>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                  MXT906B &amp; UM980 &amp; P20E</p>	<p><b>Power</b></p>	<p>5-36V DC Input                  ACC Ignition Detection                  Power Supply Voltage Detection                  Under and Over Voltage Protection                  Reverse Voltage Protection</p>
<p><b>Rugged Feature</b></p>	<p>IP67 Protection Level                  MIL-STD-810 Vibration Compliance                  ISO16750 Road Vehicle Standard                  Operating Temp: -30°C to +70°C,                  Operating Humidity: 0%-90% RH                  Storage Temp: -40°C to +85°C,                  Operating Humidity: 30%-95% RH                  Salt Spray Test: 48-Hour Endurance for Entire Device</p>	<p><b>I/O Interface</b></p>	<p>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</p>
<p><b>Button</b></p>	<p>FUNCTION BUTTON x2                  ON/OFF Button</p>	<p><b>Connector</b></p>	<p>26PIN Connector *1                  M12 X-Code Aviation Plug *1                  SMA Female Connector *1                  TNC Female Connector *1</p>
		<p><b>Light Bar</b></p>	<p>LED Light Bar, LED Lights *16 (Optional)</p>
		<p><b>Mechanical Spec</b></p>	<p>Dimensions (WxHxD): 317.8*219.6*34.5mm                  Weight: 1.75kg</p>
		<p><b>Installation</b></p>	<p>Easy Installation with RAM or Similar Mounts for Vehicles, Farm Equipment &amp; Machinery</p>

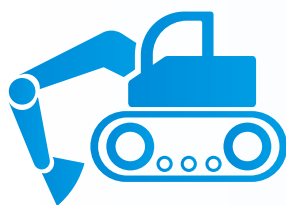


# Applications



## FARMING MACHINE AUTOMATION

Dual Operating System Support on a Single Platform  
 Tailored Development to Suit Your Needs  
 Comprehensive, High-Sensitivity Communication Interfaces  
 Robust Performance Even in the Most Complex Applications  
 Display Engineered to Withstand Water, Dust, and Sunlight



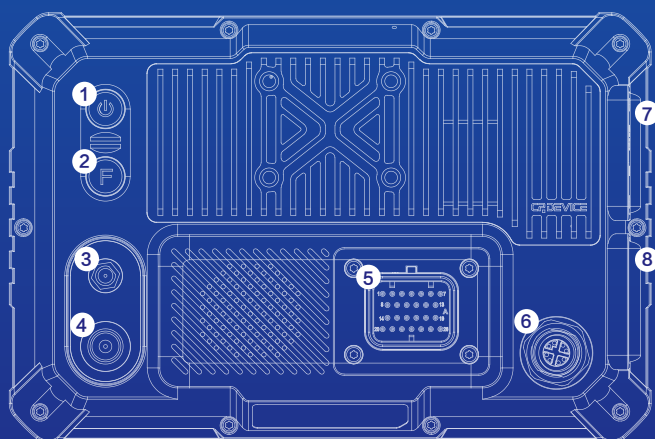
## CONSTRUCTION MACHINE CONTROL

Software Development Made Easy CP-Comm Architecture  
 Precise Positioning for Enhanced Accuracy  
 Multiple SKUs to Align with Your Business Needs  
 Resilient Design, Tolerant to High Temperatures, Salt Mist, and Shocks



## HUMAN MACHINE INTERACTION

A Single Platform Offering Dual Operating System Support  
 Customizable Development to Fit Your Requirements  
 Wide Range of Interfaces for Enhanced Applicability  
 Reliable and Sensitive Communication Capabilities



- 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 Slot \*1
- 8 USB 3.0 \*1