

Qianxing BDS Navigation Intelligent Board

Product Description

4-core ARM Cortex-A53 domestically produced industrial core board, with a clock speed up to 1.416GHz. All components of the core board, including CPU, ROM, RAM, power supply, crystal oscillator, etc., adopt domestically produced industrial-grade solutions, achieving a 100% localization rate.

The core board features MIPI CSI, HDMI OUT, RGB DISPLAY, LVDS DISPLAY, CVBS OUT, 2x EMAC, 4x USB2.0, 6x UART, SPI, TWI interfaces, using a stamp hole connection method. It supports dual-screen display, G31 MP2 GPU, 4K@30fps H.265 video hardware decoding, and 4K@25fps H.264 video hardware encoding. The core board has undergone professional PCB layout and high-low temperature testing validation, ensuring stability and reliability to meet various industrial application environments.



Product Features

① Advanced Connectivity

Equipped with 4G LTE and WiFi capabilities, enabling seamless communication and data transmission in various environments. Ensures stable connectivity in remote areas and urban environments alike, facilitating continuous operations and real-time data access.

② Enhanced Security

Integrates robust encryption protocols and secure boot mechanisms to protect sensitive data from unauthorized access. Ensures compliance with stringent security standards, mitigating potential network threats and data leaks.

3

IoT Integration

Supports IoT protocols such as MQTT and CoAP, facilitating integration with IoT platforms for remote monitoring and management. Enhances operational efficiency through centralized control and monitoring of distributed systems.

4

Edge Computing Capability

Provides onboard processing power to support edge computing tasks, reducing latency and optimizing real-time data processing efficiency. Enables local execution of complex computations, enhancing response speed and reducing dependence on centralized servers.

5

Scalability and Customization

Utilizes modular design to accommodate custom modules based on specific application needs. Allows flexible deployment and customized configurations to adapt to evolving business requirements.

6

Long-Term Reliability

Designed for harsh industrial environments, with durability and resistance to environmental factors such as dust, moisture, and temperature variations. Ensures stability and long-term operation, minimizing downtime and maintenance costs.