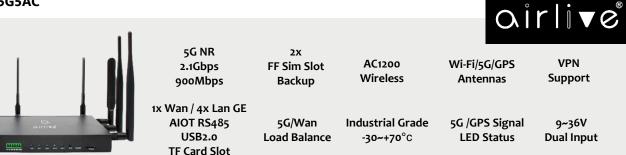
AirLive Industrial AIoT M2M 5G-NR Router with AC1200 Dual Sim-slot, Gigabit Ethernet, VPN, GPS

M2M-5G5AC



Overview

Industrial Grade 5G Router with AC 1200 Wireless and Gigabit Ethernet

The AirLive M2M-5G5AC 5G industrial Router is an easy-to-deploy, high performance 5G Sub-6 GHz Cellular router. It features a dedicated WAN port and dual-SIM 5G mobile broadband for maximum redundancy and flexibility for intense applications. It supports Powerful VPN tools and built-in hardware watchdog as well as advanced remote management combined with ease of use make the M2M-5G5AC series ideal for both large-scale and individual deployment.

5G | WAN Load Balance

Intelligent load balancing function distributes data streams according to the bandwidth proportion of each WAN port and 5G APN to raise the utilization rate of multi-line broadband allowing one device to satisfy various internet requirements.

5G | WAN Fail Over

An LTE failover router ensures that a network remains online and operational in the event of an internet outage. This is accomplished by including a secondary redundant internet connection that a network automatically switches to should the primary internet connection fail.

5G Sub-6 GHz and Wi-Fi

Compliant with IEEE 802.11b/g/n/ac MIMO standard, the data rate up to 1200Mbps, more than 60 end users can access into it; With SIM card slot, build in Qualcomm X55 5G module, it supports 5G NR

(NSA)/5G NR (SA)/LTE-FDD/LTE-TDD for worldwide use with 2.1Gbps/900Mbps uplink/downlink speed. Beside that, there is 1 WAN port which supports PPPoE/Static IP/Dynamic IP if no 4G connection.

Device Interface and Feature

- Support 5G NR (NSA)/5G NR (SA)/LTE-FDD/ LTE=TDD/LAA/WCDMA Transmitting
- Dual Sim Support (backup)
- WAN port/ Dual APN Load balance/Fail over
- Industrial grade design, support use in high and cold temperature -30°C~70°C
- Support power supply from 9 V to 36 V, Vehicle / Industrial applications suitable
- Solid Full Metal enclosure, higher safety index, better corrosion resistance
- Support 1WAN+4LAN Giga port
- Built-in hardware watchdog to ensure stable operation of the system
- Support Dual Band 1200Mbps 802.11b/g/n/ac Wireless
- UART RS485 Serial Communication
- 1x TF card slot for storage, 1x USB 2.0 port
- Dual Power Input (DC adapter/Terminal Block)
- Antenna for 5G, Wi-Fi, and GPS (option)



AirLive Technology Corporation 7F., NO. 120, LN. 235, BAOQIAO RD., XINDIAN DIST., NEW TAIPEI CITY 231407, TAIWAN AirLive Industrial AIoT M2M 5G NR Router with AC1200 Dual Sim-slot, Gigabit Ethernet, VPN, GPS



M2M-5G5AC

Solid Compact Design for Easy Deployment

The AirLive Industrial Cellular Router M2M-5G5AC series features a compact, palm-sized design for effortless deployment and rapid operation. Supporting IEEE 802.11b/g/n/ac Wi-Fi, the M2M-5G5AC integrates 5G/GPS connectivity, an RS-485 serial port, and five Ethernet ports with TF card slot, making it an optimal choice for IoT applications.



Rugged Performance in Extreme Conditions

Engineered for reliability in mission-critical applications with it's IP30 metal housing, the M2M-5G5AC series operates within a wide temperature range of -30°C to +70°C and supports a flexible power dual power input (DC Adapter/Terminal Block) from 9V to 36V. Rigorously tested for durability, it ensures stable performance even in harsh industrial environments. The Ethernet interface has a built-in 1.5KV electromagnetic isolation protection as well as for the SIM/UIM interface, it also has a built-in 1.5KV ESD protection.

Reliable Connectivity with Dual SIM, RS485, and TF Slot Equipped with GPS Antenna for Precise Positioning Built-in hardware watchdog

The AirLive Industrial Cellular Router M2M-5G5AC series is designed for seamless and uninterrupted communication in industrial applications. Featuring dual SIM slots for network communication redundancy, an RS485 serial port for reliable data transmission, and a TF slot for additional storage, this router ensures optimal performance in mission-critical environments.

The AirLive Industrial Cellular Router M2M-5G5AC series comes equipped with a high-performance GPS antenna, ensuring accurate positioning and reliable tracking. Designed for industrial and IoT applications, it enhances location-based services, asset monitoring, and fleet management.

Built-in hardware watchdog to ensure stable operation of the system. And prevent the downtime.

Combined with dual SIM slots, RS485, and a TF slot, this router delivers seamless connectivity and robust performance in demanding environments.

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M2M-5G5AC Quectel EC200AU (AUNZ, LATAM) | EC200EU

Various Applications

The M2M-5G5AC is designed for transportation such as bus and fleet management. The M2M series including serial port, it is designed for ATM, Kiosk, vending machine. The M2M-5G5AC is very small but features 2 sim slot of failover, it is perfect for Office secondary Internet or digital signage operation.



Various Applications



Specification

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Hardware

Device Interface: CPU: MTK7621A FLASH: FLASH 128M RAM: DDR2 1GByte LAN: 4*1000MBase-T LAN WAN: 1*1000MBase-T WAN/LAN

Wi-Fi Antenna Connector: 4

5G Antenna Connector: 4

TF Storage: 1x

USB: 1x

UART: 1x RS485

GPS Connector:1x

SIM Slot: 2x (backup)

Power Input: 12V/1.5A (built-in power reverse protection). Dual Power Input DC Adapter and Terminal Block, Power Range: DC 9~36V

RESET Button: 1x

LED Light: 1x Power, 1 x SYS System Status Indicator, 4 x LAN Ethernet Status indicator, 1 x WAN Ethernet Status Indicator, 2 x Wi-Fi Status Indicator, 1 x NET Internet Indicator, 1x CELL Status Indicator 1 x GPS Status Indicator

- Wireless Speed: 802.11AC: Max 1200 Mbps
- Wireless Frequency: 2.4Ghz: 2.4GHz ~ 2.484GHz, 5GHz: 5.150GHz~5.850GHz
- Wireless TX Power: 2.4G: ≤22dbm, 5.8G: ≤17dbm

Software Specifications

Main Features

WAN: Static IP, DHCP, PPPoE Support Links Redundancy, and WAN-WWAN Failsafe Link detection, Heartbeat detection, and auto reconnection Wi-Fi: Client, AP, Router Mode

Support WPA/WPA2 Encryption, MAC Filter and others **VPN** Support VPN Client PPTP / L2TP

Management: SYSLOG / HTTP / TR069/Other Functions, Support Local or Remote Firmware Upgrade, Import / Export configuration file.

Traffic: Support APN/VPDN/IPv6/NTP/ VLAN, MAC Address Clone/Multiple DHCP Server, DHCP Client, DHCP and MAC Address Binding, DDNS, Firewall, DMZ, Statistics and others. Support Multiple Serial Pass-through Method, UDP Client, TCP Client, Server

5G Technical

5G Sub 6 NR Module Model: Qualcomm X55

Country: Global

Band:

5G NR (NSA): n41/n77/n78/n79

5G NR (SA): n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/ n40/n41/n48*/n66/n71/ n77/n78/n79

LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/ B19/B20/B25/B26/B28/B29/B30/B32/B66/B71

Model AirLive M2M-5G5AC

Band:

LTE-TDD: B34/B38/B39/B40/B41/B42/B43/B48 LAA: B46

WCDMA: B1/B2/B3/B4/B5/B6/B8/B19

Mode: 5G NR (NSA), 5G NR (SA), LTE-FDD, LTE-TDD, LAA,

WCDMA

5G Data Rates

5G SA Sub-6: Max. 2.1Gbps (DL) / Max. 900Mbps (UL) **5G NSA Sub-6**: Max. 2.5Gbps (DL) / Max. 600/650Mbps (UL) **LTE-FDD**: Max. 1Gbps (DL) / Max. 200Mbps (UL)

WCDMA: Max. 42Mbps (DL) / Max. 5.76Mbps (UL)

*600 Mbps is the typical value; while 650 Mbps is the theoretical data rate when the UL 256QAM of both LTE and 5G NR are enabled (LTE UL 256QAM in EN-DC is disabled by default and has not been deployed by operators.).

Terminal Block

- VCC: 2x DC Input V+
- GND: 1x DC Input V-
- **GND**: RS232
- RXD/A: Default protocol is RS485 A+
- TXD/B: Default protocol is RS485 B-

Power

- Power Input: DC 12V/1.5A or 1A, Power Range DC 9~36V
- Power Usages Max: 4.2W (Idle), Max 10W (Full)

Environment

- Operating Temperature: -30°C to +70°C
- Storage Temperature: -40°C to +85°C
- Humidity: 95%, non-condensing

Standard package of Router

- **Product size:** 20.0 x 14.1 x 2.8 cm(L*W*H) (excluding antennas)
- Package size:
 29.5 x 26.5 x 4.50 cm(L*W*H)
- Package Weight: N.W: 0.92kg; G.W: 1.42kg
- Package content:

1 x M2M-5G5AC, 1 x Power adapter, 2 x 2.4GHz Wi-Fi Antenna, 2x 5GHz Wi-Fi Antenna, 4x 5G Antenna, 1x GPS Antenna (optional), 1x Network cable, 1x mounting bracket.

Standard carton package

- Quantity: 10pcs / 1 carton
- Dimensions
 46.5 x 30.5 x 28.5cm (L*W*H)
- **Weight** 15kg(G.W)

Ordering Information

- Model: AirLive M2M-5G5AC
 - Name: AirLive Industrial Grade

AirLive Industrial Grade AIoT M2M 5G NR Router with AC 1200, Dual SIM-slot

* Specification will be changed without prior notice

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