



ComIn I3500

High Performance Industrial Grade 5G Wireless Router

- Full Duplex 10/100/1000Mbps Network Ports
- Support 5G Sub-6 Cellular Network Connectivity
- Support Serial Interface Pass-through Function
- Support Storage Expansion and GPS Positioning Function
- 1200Mbps Dual Band High Power Wi-Fi Coverage

Product Description

ComIn I3500 is an industrial 5G wireless router that integrates multiple functions such as Wi-Fi transmission, local resource sharing, cellular mobile Internet access, precise GPS positioning, serial port pass-thru transmission, and backend remote management. It provides more processing performance, richer interfaces and higher network connection speed than ordinary industrial routers. This product is suitable for different application types and scenarios, such as car Wi-Fi, video transmission, PLC remote control, smart express cabinet, video surveillance, 5G access application etc.

Product Features

- Dual-core processor, faster and more powerful processing speed
- Support 5G Network Access
- Industrial grade design, support use in high and cold temperature
- Full Metal enclosure, higher safety index, better corrosion resistance
- Gigabit Network Port Design for faster link communication
- Support network port function definition and customization
- Support Wi-Fi 802.11b/g/n/ac up to 1200Mbps max. data speed
- Maximum Wi-Fi user connection exceeds 60+
- Wide Power Voltage Design
- Linkable to an external serial device
- USB2.0 high-speed interface port
- Optional dedicated precise GPS positioning (optional)
- Hardware watchdog design prevents downtime and auto-recovery

Main Features – Industrial Application Design

- Adopt high-performance 32-bit dual-core network processor
- Wide voltage input design: 9 ~ 28V
- Industrial grade software and hardware watchdog design, trouble-free and reliable operation in power station, transportation, and industrial control environment application
- Excellent electromagnetic, radiation, and static protection ability
- Industrial grade EMC electromagnetic compatibility and radiation performance, passed the GB/T17626.5-2008 Level 4 test standard
- Industrial grade components, working temperature: -30 ~ +70°C
- Industrial enclosure, suitable for extreme environments
- Fan-less heat dissipation technology effectively reduces the failure rate of the equipment
- SIM card protection design
- Meet the trouble-free and reliable operation under a vibration and shock environment

Main Features – Rugged, Stable, and Reliable

- A dual watchdog design ensures that the stability of the system
- Apply a complete anti-disconnection mechanism to ensure the end data terminal is always online
- The product passed EMC test requirements
- The Ethernet interface built-in 1.5KV electromagnetic isolation protection GB/T17626.5-2008 (Level 4)
- SIM/UIIM interface built-in 15KV ESD protection GB/T17626.5-2008 (Level 4)
- Built-in reserve phase protection and overvoltage protection for the power interface

Hardware Specifications

Main Hardware

| | |
|---------------|-------------------------|
| CPU | MTK7621A |
| Wi-Fi Chipset | MT7603EN + MT7613B |
| Flash | 128Mbit (Max. 512Mbit) |
| RAM | DDR3 2Gbit (Max. 4Gbit) |

Wi-Fi Specifications

| | |
|-----------------------|--|
| Wi-Fi Standard | Dual Band Wi-Fi, IEEE 802.11ac/b/g/n |
| Data Rate | IEEE 802.11g: Max 54Mbps IEEE 802.11n: Max. 300Mbps IEEE 802.11ac: Max 900Mbps |
| Encryption | WPA -PSK/ WPA2-PSK |
| RF Power | 20±2dBm (120mW) |
| Reception Sensitivity | <-72dBm @ 54Mbps |

5G Sub-6 NR Technical Specifications

| | | |
|---------------------|--------------|--|
| Cellular Technology | 5G Sub-6 GHz | |
| Frequency Bands | 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 |
| | LTE-TDD | B34/B38/B39/B40/B41/B42/B43/ B48 |
| | LAA | B46 |
| | WCDMA | B1/B2/B3/B4/B5/B6/B8/B19 |
| Data Transmission | 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) |
| Antenna | Cellular x 4, GNSS x 1 | |
| GNSS | GPS/GLONASS/BeiDou (Compass)/Galileo | |
| MIMO | DL: 4 x 4, UL: 2 x 2 | |
| Antenna Type | External Antenna | |

*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, and it is not fully tested).

Interfaces

| | |
|----------------|--|
| WAN | 1 x 10/100M/1000M Ethernet Port, Auto MDI/MDIX, Built-in 1.5KV Electromagnetic Isolation Protection |
| LAN | 4 x 10/100M/1000M Ethernet Port, Auto MDI/MDIX, Built-in 1.5KV Electromagnetic Isolation Protection |
| SIM Card | 2 x Push-Push SIM card Slot (2FF) |
| USB | 1 x USB 2.0 Port |
| TF Storage | 1 x TF Card Slot for Storage |
| UART | 1 x RS232 or RS485 Serial Communication |
| Power | 1 x Standard DC Connector, Built-in Power Reverse Protection |
| Antenna | 4 x 5G Antenna 2 x 2.4GHz Wi-Fi Antenna 2 x 5GHz Wi-Fi Antenna 1 x GPS Antenna (Optional) |
| LED Indicators | 1 x POWER Status Indicator 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 CELL Status Indicator 1 x NET Internet Indicator 1 x GPS Status Indicator |

| | |
|------------------|---|
| Phoenix Terminal | Specifications: 6 x 3.5mm VCC (DC Input V+) VCC (DC Input V+) GND (DC Input V-) GND (RS232) RXD/A (The default protocol is RS485 A+) TXD/B (The default protocol is RS485 B-) |
| Reset | 1 x Pin-hole Reset Button |

Power Supply

| | |
|-------------------|-------------|
| Input Power | DC 12V/1.5A |
| Power Range | DC 9~28V |
| Power Consumption | <1A (12V) |

Physical Properties

| | |
|------------|--|
| Enclosure | Metal Enclosure, Industrial Protection Grade IP30. The enclosure and the system are safely isolated and are widely used in automotive and specific industrial applications. |
| Dimensions | 200mm x 141mm x 28mm |
| Weight | Est. 920g |

Environments

| | |
|-----------------------|----------------------|
| Operating Temperature | -30°C to +70°C |
| Storage Temperature | -40°C to +85°C |
| Humidity | 95% (non-condensing) |

Order Information

| Order Code | Product Description |
|-------------|---|
| ComIn I3500 | 1 x I3500 Wireless Router unit 4 x Blade Paddle/ Optional Spring Magnetic Antenna (5G) 2 x Dipole/Rubber-Duck Antenna (2.4GHz Wi-Fi) 2 x Dipole/Rubber-Duck Antenna (5GHz WI-FI) 1 x GPS Antenna (Optional) 1 x AC/DC Power Adapter 1 x Network Cable |

Product View



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