

ComIn I3500

High Performance Industrial Grade 5G Wireless Router

Product Specifications



- 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 Solution

Product Description

ComIn I3500 is an industrial 5G wireless router that integrates multiple functions such as WIFI 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 WIFI, 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
- USB3.0 high-speed interface port
- Optional dedicated precise GPS positioning (optional)
- Optional High Capacity Storage via SATA Hard-disk expansion
- 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 ~ 36V
- 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: -20 ~ +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/UIM interface built-in 1.5KV 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	DDR2 1Gbit (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	WEP / WPA / WPA2 / WPA3
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
USB	1 x USB 3.0 Port
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
LED Indicators	1 x SYS System Status Indicator 4 x LAN Ethernet Status indicator 1 x WAN Ethernet Status Indicator 2 x WIFI Status Indicator 1 x NET Internet Indicator 1 x GPS Status Indicator
Reset	1 x Pin-hole Reset Button

Power Supply

Input Power	DC 12V/1.5A
Power Range	DC 9~30V
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

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