

# ComIn I210

Industrial Grade 4G Wireless Router

## Product Specifications



- Based on High Performance 32bit MIPS processor and Industrial Communication Module
- Support VPN Client
- Wide Voltage Input Design 6 ~ 36V
- Industrial Casing Design, Quick Installation & Quick Use
- Rich Industrial Application Interface, Built-in ESD Protection
- Support 4G Cat1 or 4G Cat4 modem Solution.

## Product Description

In the world of the internet of things, everything is interconnected. The demand for intelligent communication will become higher and higher, especially in the field of intelligent industrial control. The ComIn I210 4G industrial router is a new generation of 4G wireless router launched by Shenzhen Movingcomm Technology Co., Ltd. for the industrial field. The device provides fast Internet access with the explosive growth of 4G cellular data network and a variety of wired high-speed broadband access services.

In addition, ComIn I210 provides single 10/100Mbps RJ45 LAN network port, a set of industrial phoenix terminals (serial port RS232 or RS485), and a drawer SIM/UIM card slot. It can have the serial port, Ethernet port, and WIFI connected and working at the same time, providing pass-through data transmission.

ComIn I210 supports remote management via the cloud management platform. It has a simple graphical interface, is convenient and quick to use. It lets you know the current status of equipment anytime, anywhere, widely used in M2M industries and the Internet of Things, such as smart grid, smart transportation, smart home, finance, Mobile POS terminal, supply chain automation, industrial automation, intelligent building, fire protection, public safety, environmental protection, meteorology, digital medical treatment, telemetry, military, space exploration, agriculture, forestry, water, coal mine, petrochemical, and other fields.

## Features

### Ruggedized Industrial Design

ComIn I210 is based on MTK 32-bit MIPS chipset solution in the product design. It has built in 64MB system memory and supports WIFI 2.4GHz 802.11n protocol and provides a maximum rate of up to 150Mbps (Single Antenna). In addition, the product adopts the metal casing to provide industrial isolation protection, which is especially suitable for industrial control field applications. The wide voltage input design is 6~36VDC, the standard 12VDC power input, and the built-in power reverse protection.

### Stability and Robustness

ComIn I210 adopts dual watchdog design to ensure system stability and support long-term stable operation. Cellular communication adopts a complete anti-drop mechanism to ensure that data communication terminals are always online. At the same time, it provides comprehensive interface protection functions and supports built-in 1.5 KV electromagnetic isolation protection, SIM/USIM interface built-in 1.5KV ESD protection, power interface built-in reverse protection and overvoltage protection, antenna interface lightning protection (optional).

### User Friendliness

ComIn I210 provides standard RS232/RS485, Ethernet and WIFI interfaces, which can directly connect serial devices, Ethernet devices and WIFI devices. The standard wired WAN port supports PPPoE protocol and can be directly connected to ADSL equipment. The device can perform as an intelligent data terminal, which can enter the data transmission state when it is powered on. It supports a powerful cloud management

platform, which is convenient for multi-device management (optional). It is easy to use and flexible. It supports multiple working modes and is convenient for system configuration. and maintenance (including local, remote web, and cloud platform management).

## Hardware Specifications

Model	ComIn I210	
CPU	32bit MIPS Dual Core Industrial Grade Processor	
System Memory	64MB	
Flash	16MB SPI Flash (optional Max 32MB)	
Cellular	4G Cat4 or optional 4G Cat1 model	
Wi-Fi	2.4GHz IEEE 802.11n MIMO 150Mbps Max.	
Interfaces	RJ45	1 x 10/100Mbps FE RJ45 Port, Auto MDI/X, with 1.5KV Magnetic Isolation Protection (Default LAN, can be configured as WAN Port)
	Terminal Block	2.54mm Standard Industrial Terminal Block. Support Serial RS232/RS485, DC Power Input, DI, DO
	SIM	1 x Drawer-Type SIM Card Holder, Support Standard 1.8V/3V USIM/SIM Card, 15KV ESD Protection, Support Hot-Swap, Support Built-in SIM Card (eSIM)
	Power	Standard DC Power Input Jack, Reverse-Voltage Protection, and Surge Protection
	Reset	1 x Factory Reset Button (Pinhole)
	Antenna	2 x Standard SMA / RP-SMA Antenna Port, 50 ohm
Indicators	PWR LED Indicator x 1	
	SYS LED Indicator x 1	
	WIFI LED Indicator x 1	
	NET Status LED Indicator x 1	
	CELLULAR Strength LED Indicator x 3	
Power Input	Power Type	12VDC/1A
	Power Range	6V ~ 36VDC
	Power Consumption	<450mA (12V), Typical 170mA @ 12V

Hardware Watchdog	Embedded hardware watchdog, supports equipment operation self-test technology, equipment operation fault auto recovery
EMC	Electrostatic: EN61000-4-2, Level4
	Radiated Electric Field: EN61000-4-3, Level4
	Pulsed Electric Field: EN61000-4-4, Level4
	Surge: EN61000-4-5, Level3
	Conducted Disturbance: EN61000-4-6, Level4
	Power Frequency Interference: EN61000-4-8, Horizontal/Vertical 400A/m (>Level 4)
	Shock Wave Immunity: EN61000-4-12, Level4
Enclosure	Metal Casing, Safe Isolation Between Casing and System, Especially Suitable For Industrial Control Field Applications
Dimensions	100mm x 63mm x 31mm (Exclude Antenna and Mounting Sets)
Weight	Approx. 180g (Excluding Antenna and Accessories)
Environment	Operating Temperature: -35°C to 75°C
	Storage Temperature: -40°C to 85°C
	Operating Humidity: 10% to 95% RH Non-condensing
	Storage Humidity: 5% to 95% RH Non-condensing
Firmware	Linux SDK

## Industrial Grade Cellular Specifications (For 4G Cat1 model)

LTE Category	LTE Cat 1	
Standards	4G	FDD-LTE, TDD-LTE
	2G	GPRS, EDGE
Frequency*	CN Version	LTE-FDD: B1, B3, B5, B8 LTE-TDD: B34, B38, B39, B40, B41 GSM: B3, B8
	EU Version	LTE-FDD: B1, B3, B7, B8, B20, B28 LTE-TDD: B38, B40, B41 GSM: B2, B3, B5, B8
Data Rate	LTE	LTE-FDD: Max. 10Mbps (DL)/ Max. 5Mbps (UL) LTE-TDD: Max. 8.9Mbps (DL)/ Max. 3.1Mbps (UL)

	GPRS	Max. 85.6 (DL)/ Max. 85.6 (UL)
Transmitting Power	<24dBm	
Receiver Sensitivity	<-109dBm	

Note \*: The information about the supported standards and wireless bands may vary with the application of 4G modules. Before ordering, please ask and confirm with our sales representatives whether or not the required network standards and wireless frequency bands are met.

## Industrial Grade Cellular Specifications (For 4G Cat4 model)

LTE Category	LTE Cat 4	
Standard	4G	FDD-LTE, TDD-LTE
	3G	WCDMA
	2G	GPRS, EDGE
Frequency*	CN Version	LTE-FDD: B1, B3, B5, B8 LTE-TDD: B34, B38, B39, B40, B41 WCDMA: B1, B5, B8 GSM: B3, B8
	EU Version	LTE-FDD: B1, B3, B7, B8, B20, B28 LTE-TDD: B38, B40, B41 WCDMA: B1, B8 GSM: B3, B8
	LATAM/AU Version (Custom)	LTE-FDD: B1, B2, B3, B4, B5, B7, B8, B28, B66 LTE-TDD: B40 WCDMA: B1, B2, B4, B5, B8 GSM: B2, B3, B5, B8
Data Rate	LTE	LTE-FDD: Max. 150Mbps (DL)/ Max. 50Mbps (UL) LTE-TDD: Max. 130Mbps (DL)/ Max. 30Mbps (UL)
	WCDMA	Max. 384Kbps (DL)/ Max. 384Kbps (UL)
	EDGE	Max. 236.8Kbps (DL)/ Max. 236.8Kbps (UL)
	GPRS	Max. 85.6Kbps (DL)/ Max. 85.6Kbps (UL)
Transmitting Power	<24dBm	
Receiver Sensitivity	<-109dBm	

Note \*: The information about the supported standards and wireless bands may vary with the application of 4G modules. Before ordering, please ask and confirm with our sales representatives whether or not the required network standards and wireless frequency bands are met.

## Wi-Fi Specifications

Wi-Fi Technology	IEEE 802.11b/g/n
Channel Bandwidth	20MHz, 40MHz
Frequency	2.4GHz (2.412-2.4835GHz)
Channel	Channel 1 – 13
TX/RX	2.4GHz: 1T1R
Max Data Rate	802.11b: 11Mbps 802.11g: 54Mbps 802.11n: 150Mbps
Reception Sensitivity	-70±2dBm @ 54Mbps
Max. Output Power	15±2dBm
Antenna Type	External Antenna x 1
Wi-Fi Encryption	WEP/WPA/WPA2 Protected Encryption

## Software Specifications

Main Features	WAN	Support Static IP
		Support DHCP
		Support PPOE
		Support WWAN (Cellular) and WAN Auto Failover Function
		Support Link detection, Heartbeat Detection, Packet detection, Auto Re-connection
	WIFI	Support Client, AP, Router Mode
		Support WPA/WPA2 Encryption
	VPN	Support VPN Client, PPTP / L2TP
	Management	SYSLOG / HTTP Functions
		Support Two Admin Account (Super Admin / Normal Admin)
		Support Local or Remote Firmware Upgrade
		Support Remote Cloud Management, TR069
	Support APN/VPDN	

	Support IPv4 and IPv6
	Support NTP
	Support VLAN, MAC Address Clone
	Support Port Filtering, URL Filtering, Black/White List, IP and MAC Address Binding
	Support DHCP Server, DHCP Client, and DDNS Function
	Support TCP/IP, UDP, FTP (optional), HTTP, and other network protocols
	Support Serial Pass-through Method, UDP Client, TCP Client
Cellular	Cellular Connection and Status Information
	Support Band Lock
	Support Cell Lock
	Support PIN Lock

## Product Views



## Product Size



## Order Information

### 4G Cat1 Model

Product Model*	Modem	4G Antenna	WIFI Antenna
ComFi I210 CN	China Version	Spring Magnetic Type	Dipole Type
ComFi I210 EU	Europe Version	Spring Magnetic Type	Dipole Type
Standard Product Packaging: 1 x I210 Device with 4G Modem (Cat1) 1 x AC/DC Power Adapter 1 x Network Cable 1 x Spring Magnetic 4G Antenna (Optional Dipole Antenna) 1 x Dipole WIFI Antenna (Optional Spring Magnetic Antenna) 1 x Terminal Block Connector 1 x Mounting Set			

*\* Different models and specifications correspond to different prices*

### 4G Cat4 Model

Product Model*	Modem	4G Antenna	WIFI Antenna
ComFi I210 CN	China Version	Spring Magnetic Type	Dipole Type
ComFi I210 EU	Europe Version	Spring Magnetic Type	Dipole Type
ComFi I210 AU	LATAM/Australia Version	Spring Magnetic Type	Dipole Type
Standard Product Packaging: 1 x I210 Device with 4G Modem (Cat4) 1 x AC/DC Power Adapter 1 x Network Cable 1 x Spring Magnetic 4G Antenna (Optional Dipole Antenna) 1 x Dipole WIFI Antenna (Optional Spring Magnetic Antenna) 1 x Terminal Block Connector 1 x Mounting Set			

*\* Different models and specifications correspond to different prices*

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