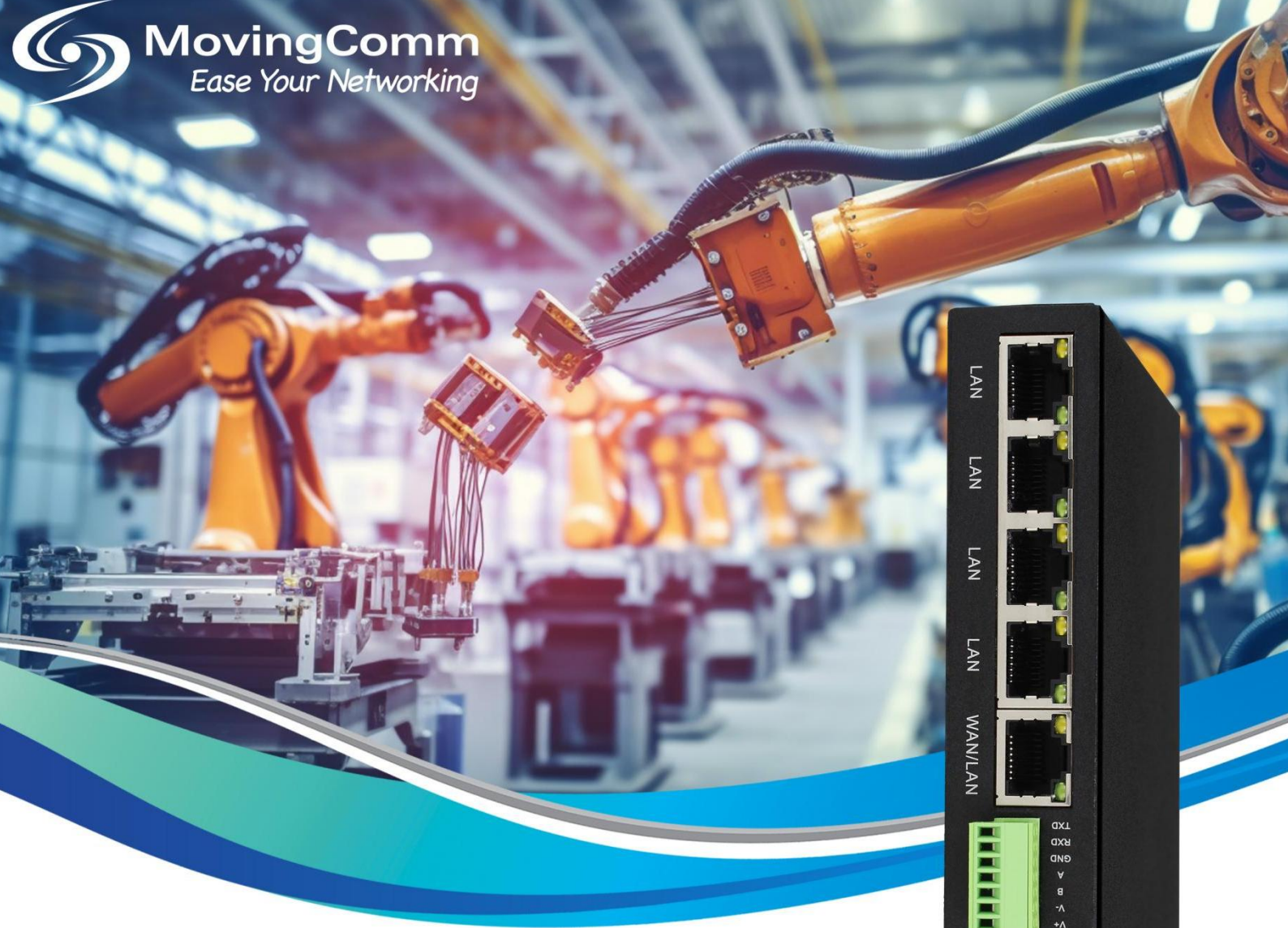




ComIn I2205

5G Redcap Industrial Router

- Support VPN Client Functions
- Wide Voltage Input Design 9~36V
- Professional Shell Design, Quick Installation and Use
- Dual Watchdog Design Ensures System Stability
- Rich Industrial Application Interfaces, Built-in ESD Protection
- Supported by High-performance 32-bit Industrial Processors and Industrial Communication Modules
- Support 5G Cellular Data Network Frequency Bands

Product Description

In a networked world where everything is connected, the demand for smart communication will become much and much stronger, especially in the field of smart industrial application and control. The equipment provides users with fast Internet connection through 5G cellular data network and various high-speed broadband access services, fully adapting to the explosive growth of network access demand.

ComIn I2205 provides five 100Mbps Ethernet interfaces simultaneously, including one WAN port, four LAN ports, a set of industrial Phoenix terminal blocks (serial port, GPIO, and power supply), and a drawer style SIM / UIM card slot. It can simultaneously connect serial port, Ethernet port, and WIFI, providing transparent data transmission and GPIO control functions.

Support remote management of device cloud platform, simple graphical interface, convenient and fast use, allowing you to understand the current status of your device anytime and anywhere. Widely used in the M2M industry of the Internet of Things industry chain, such as smart grids, intelligent transportation, smart homes, finance, mobile POS terminals, supply chain automation, industrial automation, smart buildings, fire protection, public safety, environmental protection, meteorology, digital healthcare, remote sensing surveying, military, space exploration, agriculture, forestry, water affairs, coal mines, petrochemicals and other fields.

Features

■ Ruggedized Industrial Design

ComIn I2205 adopts industrial-grade 32-bit MIPS processor with stable performance, has enterprise-level data communication processing capability, 128MB system memory, Wi-Fi supports 2.4GHz 802.11n wireless protocol, and provides a maximum rate of up to 300Mbps. In addition, the product adopts a metal enclosure to provide isolation protection, which is especially suitable for industrial control field applications. It has a wide voltage input design of 9~36VDC, a standard 12VDC power input, and built-in power reverse protection.

■ Robustness and Stability

ComIn I2205 adopts a dual watchdog design to ensure system stability and support long-term stable operation. The external network communication adopts a complete anti drop mechanism to ensure that the data communication terminal is always online. At the same time, it provides interface protection function, supporting built-in 1.5KV electromagnetic isolation protection for Ethernet ports, built-in 15KV ESD protection for SIM / UIM interfaces, built-in reverse protection and overvoltage protection for power interfaces, and lightning protection for antenna interfaces (optional).

■ Easy to Use

ComIn I2205 provides standard RS232 / RS485, Ethernet, and Wi-Fi interfaces, which can make connections to a serial device, wired network device, and wireless devices via Wi-Fi. The wired WAN port supports standard PPPoE dialup protocol which can be directly connected to an ADSL modem or equipment. Furthermore, the ComIn I2205 is a smart data terminal device that can enter the data transmission mode after power on. It also supports a powerful and comprehensive cloud management platform that make multi-device management easier and very convenient (optional feature). The ComIn I2205 is easy to use, flexible, and support multiple working modes. It has convenient system configuration and system maintenance by local web access, remote access and cloud platform management.

Hardware Specifications

CPU	32-bit MIPS dual core industrial grade processor	
Flash	16 MB SPI Flash (Optional 64MB Max)	
System Memory	128 MB (Optional 256MB Max)	
Wi-Fi	2.4GHz IEEE 802.11n MIMO up to 300Mbps	
	Detachable High Gain Wi-Fi Antennas	
Interfaces	WAN	1 x 10 / 100Mbps FE RJ45 Port, auto MDI / X, with 1.5KV magnetic isolation protection
	LAN	4 x 10 / 100Mbps FE RJ45 Port, auto MDI / X, with 1.5KV magnetic isolation protection
	Terminal Block	2.54 standard industrial terminal, supporting serial ports (RS232 / RS485), DC power supply, and GPIO
	SIM	1 x Standard Drawer-type SIM Card Holder , Support 1.8V / 3V SIM / UIM card, Built-in 15KV ESD Protection Support Built-in SIM Card
	Power	Standard DC interface, built-in power reverse protection
	Reset	1 x PinHole Reset Button
	Antenna	2 x Standard SMA-Female Antenna Connector, 50 ohm (Cellular)
		2 x Standard RP-SMA-Male Antenna Connector, 50 ohm (Wi-Fi)

Indicators	PWR LED Indicator x 1 SYS LED Indicator x 1 WIFI LED Indicator x 1 NET LED Indicator x 1 Cellular Signal Strength LED Indicator x 3	
Phoenix Terminal	Specifications: 7 x 2.54mm VCC+ (DC Input) GND (DC Input) GPIO1 (GPIO Input 0 / 3.3V) GPIO2 (GPIO Output 0 / 3.3V) GND (RS232) RXD / B- (The default protocol is RS485) TXD / A+ (The default protocol is RS485)	
Power Input	Power Type	12VDC / 1A
	Power Range	9~ 36V DC Wide Power Input
	Power Consumption	<450mA (12V) , Average 210 mA@ 12V
Hardware Watchdog	Included Hardware Watchdog, Support Device Operation Self-Check Technology, Auto Recovery from Device Failure	
EMC	Static Electricity	EN61000-4-2, Level4
	Radiated Electric Field	EN61000-4-3, Level4
	Pulse 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	EN61000-4-6, Level4
Enclosure	Ruggedized Metal Casing. The Casing and The System Are Safely Isolated, Especially Suitable for Industrial Control Field Applications.	
Product Dimensions	130mm*135mm*26mm (Excluding antenna and installation parts)	
Weight	Approx. 445g (Excluding Antenna and Mounting Sets)	
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	

5G Wireless Module Specifications

Wireless Access Technology	5G		NR-SA(3GPP Release 17 Redcap)
	4G		FDD-LTE, TDD-LTE(Cat12)
Frequency Band Support	5G	NR-SA	N1 / N3 / N5 / N8 / N28 / N41 / N78 / N79
	4G	FDD LTE	B1 / 3 / 5 / 8
		TDD LTE	B34 / 38 / 39 / 40 / 41
Data rate (Theoretical value)	5G SA		DJL: 226 Mbps; UL: 120 Mbps
	LTE		DL: 150 Mbps; UL: 50 Mbps
Transmit Power	<24±2 dBm		
Acceptance sensitivity	-100±1 dBm @ NR 5G -101±1 dBm @ LED		
Note	The above information on supported standards and wireless frequency bands varies with the application of 5G modules. Before shipment, it is necessary to confirm with sales personnel whether the network standards and wireless frequency bands that need to be supported are met.		

Wi-Fi Specifications

Wi-Fi Technology	IEEE 802.11b / g / n	
Frequency	2.4GHz (2.412-2.4835GHz)	
Wi-Fi Functions	2.4GHz Channel	1 – 13 Channel
	Channel Bandwidth	20MHz / 40MHz
Modulation	11b: DBPSK, DQPSK and CCK and DSSS 11g: BPSK, QPSK, 16QAM, 64QAM and OFDM 11n: MCS0~15 OFDM	
Transmit Power	16±2dBm	
Receive Sensitivity	<-72±2dBm @ 54Mbps	
Antenna Type	External Antenna	
Wi-Fi User Support	Max. 32 Users	
Wi-Fi Encryption	WPA / WPA2 Protected Encryption	

Software Specifications

Main Features	WAN	Static IP, DHCP, PPPoE
		Support dual link intelligent switching backup function for mobile and wired networks
		Link detection, Heartbeat detection, and auto reconnection
	Wi-Fi	Client, AP , RouteMode
		Support WPA / WPA2 Encryption, MAC Filter and others
	VPN	Support PPTP / L2TP / OpenVPN / IPSec / GRE / WireGuard
	Management	SYSLOG / HTTP Other Functions
		Support Local or Remote Firmware Upgrade, Import / Export configuration file
		Cloud Management, TR069,TR181
	Support APN / VPDN	
	Support IPv4 / IPv6	
	Support NTP	
	Support VLAN , MAC Address Clone	
	Support Multiple DHCP Server, DHCP Client, DHCP and MAC Address Binding, DDNS, Firewall, DMZ, Traffic Statistics and others	
	Support TCP / IP, UDP, HTTP and Other Network Protocol	
	Support Multiple Serial Pass-through Methods, UDP Client, TCP Client, Server	
	Support packet capture	

Product View



Order Information

Product Model	Product Packaging
ComIn I2205	Product Packaging: 1 x I2205 Router Unit 1 x 5G module (optional without module) 2 x 5G suction cup antenna (optional rod antenna) 2 x Wi-Fi rod antenna (optional suction cup antenna) 1 x Power Adapter 1 x Network Cable 1 x Phoenix Terminal 1 x hanging ear 1 x certificate of conformity

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