



ComIn I2150

Industrial Grade 5G Wireless Router

- Support VPN Client Functions
- 12V / DC Power Input and Wide Power Input Range 9V~36V
- Professional shell design, quick installation and use
- Dual watchdog design ensures system stability
- Rich industrial application interfaces, built-in ESD protection
- Adopting high-performance 32-bit industrial processors and
- Supports 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 ComIn I2150 5G router is also a new generation 5G wireless VPN router launched by Shenzhen Movingcomm Technology Co., Ltd. for industrial level application. 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.

The ComIn I2150 also provides an Ethernet WAN RJ45 network port, an Ethernet LAN RJ45 network port, a set of industrial Phoenix terminal blocks (serial function and power supply function), a drawer type SIM / UIM card slot. ComIn I2150 can simultaneously connect serial ports, Ethernet ports, and Wi Fi for direct transmission.

The ComIn I2150 supports remote management via a cloud platform. The cloud platform has a simple graphical interface that can be quick to use. It can let you know the current status of the device anytime and anywhere. Such application is widely used in the M2M industry and the Internet of Things industry chain, such as smart grid, smart transportation, smart home, finance, Mobile POS terminals, supply chain automation, industrial automation, smart buildings, fire protection, public safety, environmental protection, meteorology, digital medical care, remote sensing surveys, military, area exploration, agriculture, forestry, water affairs, coal mines, petrochemicals and other industrial fields.

Features

■ Ruggedized Industrial Design

ComIn I2150 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

The ComIn I2150 adopts a dual watchdog design to ensure system stability and supports 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 Ethernet port built-in 1.5KV electromagnetic isolation protection, SIM / USIM interface built-in 15KV ESD protection, power interface built-in reverse protection and overvoltage protection, and antenna interface lightning protection (optional).

■ Easy to Use

ComIn I2150 provides standard RS232 / RS485, Ethernet, and Wi-Fi interfaces, which can directly connect serial device, Ethernet device, and WIFI devices. The wired WAN port supports standard PPPoE dialup protocol which can be directly connected to an ADSL modem or equipment. Furthermore, the ComIn I2150 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 I2150 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 24KEc Industrial Grade Chipset, Core Frequency 575 / 580MHz	
Flash	16MB SPI Flash (Optional 64MB Max)	
System Memory	128MB / Optional 256MB DDR2 RAM	
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	1 x 10 / 100Mbps FE RJ45 Port, auto MDI / X, with 1.5KV magnetic isolation protection
	Terminal Block	2.54mm Standard Phoenix Style terminal Block Connector, Support RS232 / RS485 Serial Connection. Include DC power Input Pin DI, DO
	SIM	1 x Standard Drawer-type SIM Card Holder (2FF) Support 1.8V / 3V SIM / UIM card, Built-in 15KV ESD Protection Support Built-in SIM Card(Optional)
	Power	Standard DC Power Input Jack, Reverse-Voltage Protection And Surge Protection
	Reset	1 x PinHole Reset Button
	WPS	1 x WPS 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 Wi-Fi LED Indicator x 1 WAN LED Indicator x 1 LAN LED Indicator x 1 VPN LED Indicator x 1 NET LED Indicator x 1 SIM Card Status LED Indicator x 1 Cellular Signal Strength LED Indicator x 3	
Phoenix Terminal	Specifications: 7 x 2.54mm V+ (DC Input) V- (DC Input) DI (GPIO Input 0 / 3.3V) DO (GPIO Output 0 / 3.3V) GND (RS232) TXD / A+ (The default protocol is RS485) RXD / B- (The default protocol is RS485)	

Power Input	Power Type	12VDC / 1A
	Power Range	9~36VDC Wide Power Input
	Power Consumption	<450mA (12V), Average 170mA@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	95mm x 106mm x 28mm (Excluding Antenna and Mounting Sets)	
Weight	Approx. 280g (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 or OpenWRT	

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
TX / RX	2.4GHz: 1T1R (Optional 2T2R)	
MIMO	DL: 2X2 MIMO	
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	-90±2dBm in 802.11n HT20 MCS0
Antenna Type	External Antenna
Wi-Fi User Support	Max. 32 Users
Wi-Fi Encryption	WPA / WPA2 Protected Encryption

Cellular Specifications

Industrial 5G wireless module specifications Met			
Category	5G		NR-NSA, NR-SA(3GPP Release 15 / Release 16① NSA/ SA operation, Sub-6 GHz)
	4G		FDD-LTE, TDD-LTE(Cat12)
	3G		WCDMA
Frequency*	5G	NR-NSA	n41 / 78 / 79
		NR-SA	n1 / 28 / 41 / 77 / 78 / 79
		MIMO	DL 4 × 4: n1 / 41 / 77 / 78 / 79 DL 2 × 2: n 28 UL 2 × 2: n41 / 77 / 78 / 79
	4G	FDD LTE	B1 / 3 / 5 / 8
		TDD LTE	B34 / 38 / 39 / 40 / 41
		MIMO	DL:2x2:B1 / 3 / 5 / 8 / 34 / 38 / 39 / 40 / 41
	WCDMA		B1 / B5 / B8
Data Rate	5G SA Sub-6		DL: 2 Gbps; UL: 1 Gbps
	5G NSA Sub-6		DL: 2.2 Gbps; UL: 575 Mbps
	LTE		DL: 600 Mbps; UL: 150 Mbps
	UMTS		DL: 42.2 Mbps; UL: 11 Mbps
Transmitting Power	<23±2 dBm @ 5G		
Receive Sensitivity	-92.9 dBm @ 5G		
Note	The information about the supported standards and wireless bands may vary with the application of 5G modules. Before ordering, please ask and confirm with our sales representatives whether or not the required network standards and wireless frequency bands are met.		

Software Specifications

Main Features	WAN	Static IP, DHCP, PPPoE
		Support dual-link intelligent switching backup function for mobile network and wired network
		Support link detection, send heartbeat detection packets for detection, and automatically reconnect after disconnection
	Wi-Fi	Client, AP Mode
		Support WPA / WPA2 Encryption, MAC Filter and others
	VPN	Support VPN Client PPTP / L2TP / OpenVPN / IPSec
	Management	SYSLOG / HTTP / Other Functions
		Support Local or Remote Firmware Upgrade, Import / Export configuration file
		Cloud Management, TR069
	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 Protocols	
	Support Multiple Serial Pass-through Methods, UDP Client, TCP Client, Server	

Product View



Order Information

Product Model	Product Packaging
ComIn I2150	Product Packaging: 1 x I2150 Router Unit 1 x 5G Modem Module (Can choose without modem module) 2 x Spring Magnetic Cellular Antenna (5G), Optional Dipole Antenna (5G) 2 x Dipole Antenna (Wi-Fi), Optional Spring Magnetic Antenna (Wi-Fi) 1 x AC / DC Power Adapter 1 x Network Cable 1 x Industrial Phoenix Terminal Block Connector 1 x Mounting Set

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