ComIn I2200

Industrial Grade 4G Wireless Router

- Support VPN Client

- Wide Voltage Input Design 9 ~ 36V

- Industrial Casing Design, Quick Installation & Quick Use

- Dual Watchdog Design to Ensure System Stability

- Rich Industrial Application Interface, Built-in ESD Protection

- Based on High-Performance 32-bit Industrial Processor and Industrial Communication Module

- Support Mainstream 4G LTE FDD, TDD, & 3G Cellular Data Network Frequency Bands

Product Description

In a networked world where everything is connected, the demand for intelligent communication will become higher and higher, especially in the field of intelligent industrial control. The ComIn I2200 4G industrial router is a new generation of 4G wireless VPN 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 I2200 provides 5 x 100Mbps RJ45 network ports , a set of industrial phoenix terminals (serial port, GPIO, and DC power supply), and a drawer SIM/UIM card slot. It can have the serial port, Ethernet port and Wi-Fi connected and working at the same time, providing pass-through data transmission and GPIO control functions.

ComIn I2200 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 I2200 adopts stable performance industrial-grade 32-bit MIPS processor, with enterprise-level data communication processing capability, built-in 128MB system memory, Wi-Fi supports 2.4GHz 802.11n protocol and provides a maximum rate of up to 300Mbps. In addition, the product adopts the metal casing to provide isolation protection, which is especially suitable for industrial control field applications. The wide voltage input design is 9~36VDC, the standard 12VDC power input, and the built-in power reverse protection.

■ Stability and Robustness

ComIn I2200 adopts dual watchdog design to ensure the stability of the device and support long-term operation. It can keep long operation hours without human interference. The system has a failsafe mechanism to take care of the WAN/Cellular connection, improving uplink time and preventing loss in communication. All the Ethernet ports have built-in 1.5KV magnetic isolation protection and the SIM holder has built-in 15KV ESD protection, the power Input has reverse-voltage and surge protection as well as lightning protection (optional) in the antenna connectors.

■ **User Friendliness**

ComIn I2200 provides standard RS232/RS485, Ethernet and Wi-Fi interfaces, which can directly connect serial devices, Ethernet devices and Wi-Fi devices. The standard wired WAN port supports PPPoE protocol and can be directly connected to ADSL equipment. The device is 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 I2200	
CPU	32bit MIPS Industrial Grade Network Processor	
System Memory	128MB DDR2 RAM (Optional 256MB Max)	
Flash	16MB SPI Flash (Optional 32MB Max)	
Wi-Fi	2.4GHz IEEE 802.11n MIMO	
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 (Default)
	Terminal Block	2.54mm Standard Industrial Terminal Block. Support Serial RS232/RS485, DC Power Input, GPIO
	SIM	1 x Drawer-Type SIM Card Holder(2FF) Support Standard 1.8V/3V UIM/SIM Card, 15KV ESD Protection, Support Built-in SIM Card (eSIM)
	Power	Standard DC Power Input Jack, Reverse-Voltage Protection, and Surge Protection
	Reset	1 x Factory 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 Wi-Fi LED Indicator x 1 NET Status LED Indicator x 1 CELLULAR 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	12V DC/ 1A
	Power Range	9V ~ 36V DC
	Power Consumption	<450mA (12V), Typical 210mA @ 12V
Watchdog	Built-in Hardware Watchdog, Auto Self-Check, Auto Failure 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: EN61000-4-6, Level4	
Enclosure	Metal Casing, Safe Isolation Between Casing and System, Especially Suitable For Industrial Control Field Applications	
Dimensions	130mm x 135mm x 26mm (Exclude Antenna and Mounting Sets)	
Weight	Approx. 445g	
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	

4G/3G/2G Cellular Specifications

LTE Category	LTE Cat 4	
Cellular Technology	FDD-LTE, TDD-LTE, WCDMA, EDGE, GPRS	
Frequency*	CN Version	LTE-FDD: B1, B3, B5, B8 LTE-TDD: B34, B38, B39, B40, B41 WCDMA: B1, B5, B8 GSM: B3, B8 (Optional)

	EU Version	LTE-FDD: B1, B3, B5, B7, B8, B20, B28 LTE-TDD: B38, B40, B41 WCDMA: B1, B5, 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
Reception 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(Optional 2T2R)
MIMO	DL: 2X2 MIMO
Max Data Rate	802.11b: 11Mbps 802.11g: 54Mbps 802.11n: 300Mbps
Modulation	11b: DBPSK, DQPSK and CCK and DSSS 11g: BPSK, QPSK, 16QAM, 64QAM and OFDM 11n: MCS0~15 OFDM

Reception Sensitivity	-85dBm in 802.11b -70dBm in 802.11g -70dBm in 802.11n
Max. Output Power	16±2dBm
Antenna Type	External Antenna x 2
Wi-Fi User Support	Max. 32 Users
Wi-Fi Encryption	WPA/WPA2 Protected Encryption

Software Specifications

Main Features	WAN	Static IP, DHCP, PPPoE
		Support Links Redundancy and WAN-WWAN Failsafe
		Link detection, Heartbeat detection, and auto reconnection
	Wi-Fi	Client, AP, Router Mode
		Support WPA/WPA2 Encryption, MAC Filter and others
	VPN	PPTP / L2TP / OpenVPN / IPSec/GRE/WireGuard
	Management	SYSLOG / HTTP Functions
		Support Local or Remote Firmware Upgrade, Import / Export configuration file
		Cloud Management, TR069, TR181
	Support APN/VPDN	
	Support IPv4 and IPv6	
	Support NTP	
	Support VLAN, MAC Address Clone	
	Support DHCP Server, DHCP Client, DHCP and MAC Address Binding, DDNS, Firewall, DMZ, Traffic Statistics, etc	
	Support TCP/IP, UDP, FTP (optional), HTTP, Other network protocols	
	Support Various Serial Pass-through Method, UDP Client, TCP Client/Server	
	Support Data Capture	

Order Information

Product Model*	Modem	4G Antenna	Wi-Fi Antenna
ComFi I2200 CN	China Version	Spring Magnetic Type	Dipole Type
ComFi I2200 EU	Europe Version	Spring Magnetic Type	Dipole Type
ComFi I2200 AU	Australia Version	Spring Magnetic Type	Dipole Type

Standard Product Packaging:
1 x I2200 Device with 4G Modem
1 x AC/DC Power Adapter
1 x Network Cable
2 x Spring Magnetic 4G Antenna (Optional Dipole Antenna)
2 x Dipole Wi-Fi Antenna (Optional Spring Magnetic Antenna)
1 x Terminal Block Connector
1 x Mounting Set

Different models and specifications correspond to different prices

Product View

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