Comln I2300
Industrial 4G Wireless Router

- Support VPN Client
- Wide Voltage Input Design 9 ~ 36V
- Professional Shell Design, Quick Installation and Use
- Support Dual-band Wireless 802.11b/g/n/ac
- Rich Industrial Application Interfaces, Built-in ESD Protection
- Support 4G LTE and 3G Cellular

Product Description

In the Internet of Everything world, the demand for intelligent communication will become stronger, especially in the field of intelligent industrial control. The ComIn I2300 4G industrial router is a new generation of 4G wireless VPN router launched by Movingcomm Technology for the industrial sector. The device provides fast internet access with the explosive growth of 4G cellular data networks and multiple wired high-speed broadband access services. With its security, stability and intelligence, it can easily connect thousands of devices and provide high-speed data transmission communication for the true sense of device informatization.

ComIn I2300 provides five 100M Ethernet interfaces at the same time, one of which can be used as a WAN/LAN multiplexing port, four are fixed as LAN ports, one is a set of industrial Phoenix terminal blocks (serial ports, GPIO and power supply), and one is a drawer-type SIM/UIM card slot. It can connect to serial ports, Ethernet ports, and WIFI simultaneously, providing transparent data transmission and GPIO control functions.

Supporting remote management of device cloud platforms, with a simple graphical interface that is convenient and fast to use, allowing you to understand the current status of devices anytime and anywhere. It is widely used in the M2M industry in the IoT industry chain, such as smart grid, intelligent transportation, smart home, finance, mobile POS terminal, supply chain automation, industrial automation, intelligent building, fire protection, public safety, environmental protection, meteorology, digital medical care, remote sensing survey, military, space exploration, agriculture, forestry, water affairs, coal mines, petrochemicals and other fields.

Product Features

■ Industrial-grade Application Design

ComIn I2300 adopts stable industrial-grade 32-bit MIPS processor, which has enterprise-level data communication processing capabilities. It has 128MB of system memory built-in, and supports 2.4GHz and 5.8GHz wireless protocol for WIFI, providing a maximum speed of up to 1200Mbps. In addition, the product uses a metal shell to provide isolation protection, making it particularly suitable for industrial control field applications. It features a wide voltage input design of DC 9-36V.

■ Stable and Reliable

ComIn I2300 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 improves the interface protection function, supports 1.5KV electromagnetic isolation protection for Ethernet ports, 1.5KV ESD protection for SIM/USIM interfaces, reverse protection and overvoltage protection for power interfaces, and lightning protection for antenna interfaces (optional).

■ Convenient and Easy to Use

ComIn I2300 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

the standard PPPoE protocol and can be directly connected to ADSL devices. This device is an intelligent data terminal that can enter a data transmission state upon power-up. It supports a powerful cloud management platform, facilitating multi-device management (optional). It is easy to use, flexible, and supports multiple working modes, facilitating system configuration and maintenance (including local, remote Web, and cloud platform management).

■ Wireless Compatibility

ComIn I2300 provides users with dual-band WiFi, which supports 2.4GHz 802.11n wireless protocol and 5.8GHz 802.11ac, providing a total bandwidth of up to 1200Mbps. More compatible and higher bandwidth.

Product Specifications

Hardware Specification		
Processor	32-bit MIPS industrial-grade processor	
Memory	128MB (maximum support 256MB)	
Flash	16MB SPI Flash (up to 64MB)	
Wireless	2.4GHz 802.11n MIMO up to 300Mbps 5.8GHz 802.11ac MIMO up to 867Mbps	
	Access number > 64	
	External detachable high-sensitivity WIFI antenna	
Interface	WAN	A 10/100Mbps Fast Ethernet port, MDI/X adaptive, built-in 1.5KV electromagnetic isolation protection
	LAN	Four 10/100Mbps Ethernet ports, MDI/X adaptive, built-in 1.5KV electromagnetic isolation protection
	Industrial Terminal	2.54 standard industrial terminal, supports serial ports (RS232 and RS485), DC power supply
	SIM	A standard drawer-style SIM card interface, supporting 1.8V/3V SIM/UIM cards, featuring built-in 1.5KV ESD protection, supporting hot swapping, and supporting built-in SIM cards
	Power Interface	Standard DC interface, built-in power reverse protection
	RESET	A pinhole reset button
	Antenna Interface	6 x standard SMA antenna interfaces, characteristic impedance 50 ohms
Indicator Light	PWR system status indicator x 1	
	SYS system status indicator x 1	
	WIFI indicator light x 1	
	NET status indicator x 1	
	CELL signal strength indicator x 3	
	Network port status indicator x 5	

Power Input	Power Type	DC 12V/1A
	Power Range	9~36VDC DC power supply
	Power Consumption	<550mA (12V) average power consumption 300mA@12V
Watchdog	Embedded hardware watchdog, supports device operation self-checking technology, device operation fault self-repair	
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 direction 400A/m (>level 4)	
	Shock wave anti-interference EN61000-4-6, level4	
Shell	Metal casing, with safety isolation between the casing and the system, is particularly suitable for industrial control field applications	
Product Size	130mm*135mm*26mm (excluding antenna and installation parts)	
Product Weight	480g (excluding packaging and accessories)	
Work 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	
Operating System	Linux SDK (OPENWRT)	

Wireless Specifications

Wireless Standards	IEEE 802.11b/g/n/ac	
Working Frequency Band	802.11 b/g/n	2.412 – 2.4835GHz
	802.11 a/ac	5150MHz~5850MHz
Wireless Function	2.4GHz channel selection	1 – 13 channels
	5.8GHz channel selection	36 – 165 channels
	Bandwidth selection 20MHz /40MHz /80MHz	
Transmitting Output Power	16±2dBm @ 802.11n	
Acceptance Sensitivity	-70±2dBm @ 54Mbps	
Security and Encryption	WEP/WPA/WPA2 security mechanism	

Frequency	CN Version	LTE-FDD: B1, B3, B5, B7, B8, B20
		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. 150 (DL)/ Max. 50 (UL)
		LTE-TDD: Max. 130 (DL)/ Max. 30 (UL)
	WCDMA	Max. 384 (DL)/ Max. 384 (UL)
	EDGE	Max. 236.8 (DL)/ Max. 236.8 (UL)
	GPRS	Max. 85.6 (DL)/ Max. 85.6 (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.		

Software Function

Major Function	WAN	Support 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
	WiFi	Support multiple working modes such as Client, AP, Router, etc
		Support WPA/WPA2 encryption methods, MAC address filtering, and other features
	VPN	Support VPN Client PPTP/L2TP/OpenVPN/IPSec
	Remote Management	SYSLOG / HTTP and other functions
		Support local and remote online upgrades, import and export configuration files
		Cloud platform, TR069, TR181
	Support APN/VPDN	
	Support IPV4 and IPV6	
	Support NTP	
	Support VLAN, MAC Address Cloning	
	Support multiple DHCP servers and DHCP clients, DHCP binding MAC address, DDNS, firewall, DMZ, host traffic statistics and other functions	
	Support TCP/IP, UDP, FTP (optional), HTTP and other network protocols	
	Support multiple serial port transparent transmission methods, UDPClient, TCPClient	
	Support data packet capture	

Ordering Information

Product Model*	Modem	4G Antenna	WIFI Antenna
ComFi I2300 CN	China Version	Spring Magnetic Type	Dipole Type
ComFi I2300 EU	Europe Version	Spring Magnetic Type	Dipole Type
ComFi I2300 AU	Australia Version	Spring Magnetic Type	Dipole Type

Standard Product Packaging:

1 x I2300 Device with 4G Modem

1 x AC/DC Power Adapter

1 x Network Cable

2 x Spring Magnetic 4G Antenna (Optional Dipole Antenna)

4 x Dipole WIFI Antenna (Optional Spring Magnetic Antenna)

1 x Terminal Block Connector

1 x Mounting Set

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