



ComIn I2000

Industrial Grade 4G Wireless Router

- High Performance 32bit Industrial Grade MIPS Processor
- 12VDC Power Input and Wide Input Range 6V~40V
- Auto System Recovery with Hardware Watchdog
- WAN/LAN or Optional WAN/SERIAL Port Interface with Full ESD Protection
- Drawer Type SIM Holder, Failsafe Uplink Mechanism
- Support 4G LTE, 3G, 2G Bands for Regional Market

Product Description

ComIn I2000 is an industrial grade, compact, ruggedized cellular enabled 4G wireless router for high speed wireless communication of machines to machines (M2M) in modern era. It allows local and remote access to the connected machines virtually anywhere. It is available with flexible choice of cellular modem, Wi-Fi, Ethernet, and Serial interconnectivity options. Furthermore, it is loaded with factory product firmware for general applications and it can alternatively support open source OpenWRT by your own custom built and a product development for a project.

Features

■ Ruggedized Industrial Design

ComIn I2000 is a performance 4G wireless router based on industrial grade 32bit MIPS network processor with 128MB system RAM configuration, 1 WAN, 1 LAN, Wi-Fi 2.4GHz and 4G Cellular modem. The LAN interface can be upgraded and changed to Serial Interface RS232 option. In addition, it supports several operation mode such as idle mode, hibernate mode, timer mode (optional) for power saving. The ComIn I2000 router has IP30 rating metal enclosure and wide power input range from 6~40VDC with reverse-voltage protection.

■ Stability and Robustness

ComIn I2000 has hardware watchdog on board to maintain the stability of the device. It can keep long operation hours without human interference. The system has failsafe mechanism to take care of the WAN/Cellular connection, improving uplink time and preventing lost 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 I2000 supports local/Remote Web configuration. Optional Cloud management service solution is available for scalable device management. The product has a friendly web user interface and simple maintenance routine.

Hardware Specifications

Model	ComIn I2000
CPU	32bit MIPS Industrial Network Processor
System Memory	128MB DDR2 RAM
Flash	16MB SPI Flash

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 / RS232	1 x 10/100Mbps FE RJ45 Port, Auto MDI/X, with 1.5KV Magnetic Isolation Protection (Default)
		1 x Serial RS232/RS485 RJ45 Port (Alternative)
	SIM	1 x Drawer-Type SIM Card Holder, Support Standard 1.8V/3V UIM/SIM Card, 15KV ESD Protection
	Power	Standard DC Power Input Jack, Reverse-Voltage Protection and Surge Protection
	Reset	1 x Factory Reset Button
	Antenna	Standard SMA / RP-SMA Antenna Port, 50 ohm
1 x Wi-Fi and 1 x Cellular		
Indicators	PWR LED Indicator x 1	
	SYS LED Indicator x 1	
	WAN LED Indicator x 1	
	LAN LED Indicator x 1	
	Wi-Fi LED Indicator x 1	
	4G Connection LED Indicator x 1	
EMC	EN61000-4-2, level4	
	EN61000-4-3, level4	
	EN61000-4-4, level4	
	EN61000-4-5, level3	
	EN61000-4-6, level4	
	EN61000-4-8, horizontal/vertical 400A/m (>level 4)	
	EN61000-4-12, level4	
Power Input	Power Type	12VDC/1A
	Power Range	6V ~ 40VDC
	Power Consumption	<450mA (12V)
Watchdog	Built-in Hardware Watchdog, Auto Failure Recovery	
Enclosure	Metal Casing, IP30 Rating protection	
Dimensions	101mm x 98mm x 26mm (Exclude Antenna and Mounting Sets)	
Weight	Approx. 287g	

Environment	Operating Temperature: -20°C to 70°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	Factory OpenWRT or Linux SDK

4G/3G/2G Cellular Specifications

LTE Category	LTE Cat 4
Cellular Technology	TDD-LTE, FDD-LTE, WCDMA
Frequencies	<p>CN Version: FDD B1, B3, B5, B8 TDD B34, B38, B39, B40, B41 WCDMA B1, B5, B8 GSM: B3, B8</p> <p>EU Version: FDD B1, B3, B7, B8, B20, B28 TDD B38, B40, B41 WCDMA B1, B5, B8 GSM: B3, B8</p> <p><i>Note: If you need to customize the frequency band, please contact our sales representative.</i></p>
Data Transmission	<p>LTE FDD: Max. 150Mbps (DL) / Max. 50Mbps (UL) LTE TDD: Max. 130Mbps (DL) / Max. 30Mbps (UL) DC-HSPA+: Max: 21Mbps (DL) / Max 5.76Mbps (UL) WCDMA: Max. 384Kbps (DL) / Max. 384Kbps (UL) EDGE: Max: 236.8Kbps (DL) / Max. 236.8Kbps (UL)</p>
Reception Sensitivity	Comply 3GPP Standard
Max. Output Power	<p>LTE FDD: 23dBm±2dB LTE TDD: 23dBm±2dB WCDMA: 24dBm+1dB/-3dB</p>
Antenna Type	External Cellular Antenna x 1

Wi-Fi Specifications

Wi-Fi Technology	IEEE 802.11b/g/n
Channel Bandwidth	20MHz, 40MHz
Frequency	2.4GHz (2.412-2.4835GHz)
TX/RX	2.4GHz: 1T1R
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	17±2dBm in 802.11b 16±2dBm in 802.11g 15±2dBm in 802.11n
Antenna Type	External Antenna x 1
Wi-Fi User Support	Max. 32 Users
Wi-Fi Encryption	WEP/WPA/WPA2 Protected Encryption

Software Specifications

Main Features	WAN	Static IP, DHCP, PPPoE, 4G
		Support Links Redundancy, and WAN-WWAN Failsafe
		Link detection, Heartbeat detection, and auto reconnection
	Wi-Fi	Router Mode
		Support WPA/WPA2 Encryption, MAC Filter and others
	Management	SYSLOG / SNMP / TELNET / HTTP Functions

	Support Local or Remote Firmware Upgrade, Import / Export configuration file
	Support APN/VPDN
	Support NTP
	Support VLAN, MAC Address Clone
	Support DHCP Server, DHCP Client, DHCP and MAC Address Binding, DDNS, Firewall, DMZ, Traffic Statistics and others
	Support TCP/IP, UDP, FTP(optional), HTTP and other network protocols

Product Views



Order Information

Product Model*	External Antenna	Modem	Ethernet
ComIn I2000 CN	Yes	China Version	1 WAN 1 LAN
ComIn I2000 EU	Yes	Europe Version	1 WAN 1 LAN
Product Packaging: 1 x I2000 Device with 4G Modem 1 x AC/DC Power Adapter 1 x Network Cable 1 x Spring Magnetic Cellular Antenna (4G) 1 x Dipole Antenna (Wi-Fi) 1 x Mounting Set			

** Different models and specifications correspond to different prices*

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