

ComIn V6000

Vehicle 4G Wireless Router

Product Specifications



- High Performance 32bit Industrial Grade Processor
- Industrial Grade 4G LTE Cat4 Modem
- 1200Mbps Dual Band Wi-Fi 2.4GHz + 5GHz 802.11AC
- 12V-24VDC Power Input with Vehicle Power Protection
- Industrial Grade Interfaces with full ESD protection
- Support VPN Client Functions
- Support Standalone Precision GPS Tracking (Optional)

Product Description

ComIn V6000 is a 4G cellular vehicle wireless router with Dual Band WIFI vehicle wireless router. It is based on MIPS 32bit industrial-grade processor with 4G LTE Cat4 modem and 1200Mbps Dual Band IEEE 802.11ac Wi-Fi to serve multiple WIFI oriented services, local file sharing, Infotainment, internet over 4G LTE FDD/TDD network, GPS positioning, and remote device management all in one device. It has 1 WAN + 2 LAN fast Ethernet port, SIM Card slot, TF Card Slot, USB Host port, optional standalone precision GPS module to support in-vehicle software application development such as local infotainment, internet portal, digital tour guide, and so on.

Features

Industrial Design

ComIn V6000 is a rugged vehicle router that can support long-hour operation. It has a solid metal enclosure to protect the router board and the device is built with industrial-grade components.

Wide Power Input Range

Support 12V~24VDC vehicle power input. Wide power input range 9V~36VDC with reverse power input protection and surge protection.

Multiple Cellular Bands

Use an industrial-grade cellular modem. Support Multiple 4G LTE FDD, LTE TDD bands, and downward compatible with 3G WCDMA/UMTS and GSM bands.

Auto Connection

Stay active internet connection via a cellular network and featured with a failsafe mechanism to stay active and auto-switch between 4G, 3G, and 2G connections.

Secured Communication

Support various VPN protocols – PPTP and L2TP. Support customize other VPN functions upon request.

Vehicle Tracking

Built-in standalone GPS module for precision tracking and fast GPS response time.

Cloud Management

Besides common web GUI configuration and CLI configuration methods found in routers, the ComIn V6000 supports a cloud management platform for many devices (optional). The cloud management platform is a powerful online service that offers device management, wireless management, user management, captive portal management, GPS tracking, and other features.

Hardware Specifications

CPU	32bit MIPS Enterprise Network Processor		
System Memory	128MB DDR2 RAM		
Flash	16MB SPI Flash		
WIFI	2.4GHz 802.11n MIMO up to 300Mbps		
	5GHz 802.11ac MIMO up to 867Mbps		
	5dBi Detachable High Gain WIFI Antennas		
Cellular	Refer To Below Cellular Specifications Table		
	Detachable High Gain Cellular Antenna		
Interfaces	WAN	1 x 10/100Mbps Fast Ethernet Port, auto MDI/X, with 1.5KV magnetic isolation protection	
	LAN	2 x 10/100Mbps Fast Ethernet Port, auto MDI/X, with 1.5KV magnetic isolation protection	
	SIM	1 x SIM Card Holder, Standard 1.8V/3V SIM/UIM, 15KV ESD Protection	
	TF	1 x TF Card Slot for Local Storage Expansion	
	Power	3Pin Aviation Connector, Reverse-voltage Protection and Surge Protection	
		Alternative 4Pin Self-defined Power Connector	
	Antenna	4 x WIFI Standard SMA Antenna Port, 50 ohm	
		1 x Cellular Standard SMA Antenna Port, 50 ohm	
		1 x GPS Standard SMA Antenna Port, 50 ohm	
RESET	1 x Factory Reset Button		
Indicators	PWR LED Indicator x 1		
	SYS LED Indicator x 1		
	2.4GHz LED Indicator x 1		
	5GHz LED Indicator x 1		
	4G LED Indicator x 1		
	GPS LED Indicator x 1		
Power Input	Power Type	12V~24VDC via 3Pin Aviation Connector	
	Power Range	9~36VDC	

	Power Consumption	<2A (12V)
Enclosure	Metal Casing, IP50 Rating protection	
Dimensions	174mm x 145mm x 25mm (Excluding Antenna and mounting set)	
Weight	Approx. 585g (Excluding Antenna, Accessories and mounting set)	
Environment	Operating Temperature: -20°C to 70°C	
	Storage Temperature: -40°C to 90°C	
	Operating Humidity: 10% to 90% RH Non-condensing	
	Storage Humidity: 5% to 90% RH Non-condensing	

4G Cellular Specifications

LTE Category	LTE Cat 4	
Frequency*	CN Version	LTE-FDD: B1, B3, B5, B8 LTE-TDD: B34, B38, B39, B40, B41 WCDMA: B1, B5, B8 GSM: B3, B8
	EU Version	LTE-FDD: B1, B3, B7, B8, B20, B28 LTE-TDD: B38, B40, B41 WCDMA: B1, B8 GSM: B3, 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)
	DC-HSPA+	Max. 21 (DL)/ Max. 5.76 (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	Class 4 (33dBm±2dB) for EGSM900 Class 1 (30dBm±2dB) for DCS1800 Class E2 (27dBm±3dB) for EGSM900 8-PSK Class E2 (26dBm±3dB) for DCS1800 8-PSK Class 3 (24dBm+1/-3dB) for WCDMA bands Class 3 (23dBm±2dB) for LTE-FDD bands Class 3 (23dBm±2dB) for LTE-TDD bands
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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

Standards	IEEE 802.11b/g/n and IEEE 802.11a/n/ac		
Frequencies	802.11b/g/n	2.412 – 2.4835GHz	
	802.11a/ac	5.180-5.825GHz	
Functions	2.4GHz	1 – 13 Channel Selection	
	5GHz	36 – 165 Channel Selection	
	Band Bandwidth 20MHz / 40MHz / 80MHz		
RF Output Power	2.4GHz	IEEE 802.11b	11M 2.4G: 20±2dBm
		IEEE 802.11g	6M 2.4G: 20±2dBm
			54M 2.4G: 15±2dBm
		IEEE 802.11n	HT20-MCS0: 20±2dBm
			HT20-MCS7: 15±2dBm
			HT40-MCS0: 20±2dBm
			HT40-MCS7: 15±2dBm
Reception Sensitivity	2.4GHz	IEEE 802.11b	1M 2.4G: -87±2dBm
			11M 2.4G: -82±2dBm
		IEEE 802.11g	6M 2.4G: -83±2dBm
			54M 2.4G: -70±2dBm
		IEEE 802.11n	HT20-MCS0: -84±2dBm
			HT20-MCS7: -65±2dBm
			HT40-MCS0: -80±2dBm

			HT40-MCS7: -62±2dBm		
RF Output Power	5GHz	IEEE 802.11a	6M 5G: 18±2dBm		
			54M 5G: 15±2dBm		
		IEEE 802.11n	HT20-MCS0: 20±2dBm		
			HT20-MCS7: 13±2dBm		
			HT40-MCS0: 18±2dBm		
			HT40-MCS7: 12±2dBm		
		IEEE 802.11ac	HT20-MCS0: 18±2dBm		
			HT20-MCS7: 12±2dBm		
			HT40-MCS0: 18±2dBm		
			HT40-MCS9: 11±2dBm		
			HT80-MCS0: 18±2dBm		
			HT80-MCS9: 10±2dBm		
		Reception Sensitivity	5GHz	IEEE 802.11a	6M 5G: -96±2dBm
					54M 5G: -84±2dBm
IEEE 802.11n	VHT20-MCS0: -95±2dBm				
	VHT20-MCS7: -77±2dBm				
	VHT40-MCS0: -92±2dBm				
	VHT40-MCS7: -77±2dBm				
IEEE 802.11ac	VHT20-MCS0: -94±2dBm				
	VHT20-MCS7: -70±2dBm				
	VHT40-MCS0: -91±2dBm				
	VHT40-MCS9: -65±2dBm				
	VHT80-MCS0: -90±2dBm				
	VHT80-MCS9: -61±2dBm				
Wireless Security	WEP/WPA/WPA2 Protected Encryption				

Software Specifications

Main Features	WAN	Static IP, DHCP, L2TP, PPTP, PPPoE, 4G
		Support Links Redundancy and WAN-WWAN Failsafe
		Link detection, Heartbeat detection, and auto reconnection
	WIFI	Client, AP, Router, Other working modes
		Support WPA/WPA2 Encryption, MAC Filter, Others
	VPN	Support VPN Client PPTP / L2TP
	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, Others	
	Support TCP/IP, UDP, FTP(optional), HTTP, Other network protocols	
Support GPS Tracking Function(optional)		

Product Views



Order Information

Product Model*	4G Antenna	Modem
ComIn V6000-CN	Dipole / Magnetic Spring (Optional)	China Version
ComIn V6000-EU	Dipole / Magnetic Spring (Optional)	Europe Version

Product Packaging:
1 x V6000 Router Unit with 4G Modem
1 x 1-meter Power Cable with 3-PIN Aviation Plug
1 x Dipole Antenna (4G)
2 x Dipole Antenna (Wi-Fi 2.4GHz)
2 x Dipole Antenna (Wi-Fi 5GHz)
1 x Mounting Set
1 x Magnetic GPS Antenna (Optional)

** Different models and specifications correspond to different prices*

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