CIR584-W-G

4-Port Dual-band Industrial Multi-Carrier 5G Router



- 1 x 1G WAN port, 3 x 1G RJ45 ports, 1 x RS232/485 port
- Support serial ports (RS232/RS485), enabling you to scale up M2M applications
- Dual-band Wi-Fi 5, support AP / STA / Repeater modes
- Global 5G (NSA/SA)/4G LTE network with dual SIM cards for backup between multiple carrier networks
- Support ESD, Surge, EFT protection
- Industrial grade design, Rugged enclosure with IP30 protection
- -35°C~+75°C operating temperature range

Product Description

CIR584-W-G industrial multi-carrier 5G router is a high-performance all-in-one fixed/mobile wireless communications platform with advanced software enabling high availability, reliable, and secure connectivity for mission-critical applications. The compact, rugged design integrates dual SIMs, four-port Gigabit Switch, 802.11ac and 802.11n Wi-Fi Access Point, RS232/485, embedded cellular module that supports WCDMA, 4G LTE, and 5G sub-6 GHz NSA and SA networks. CIR584-W-G supports an extended operating temperature range from -35°C~+75°C and has flexible configuration options.

Product Features

- Industrial grade design, Rugged enclosure with IP30 protection, optimized for DIN rail or shelf mounting
- Wide operating temperature. Wide voltage input, reverse polarity protection
- ESD, Surge, EFT protection.
- Embedded hardware watchdog, self-recovers from malfunctions, maintaining high device availability
- Global 5G (NSA/SA)/4G LTE network with dual SIM cards for backup between multiple carrier networks
- Plug& play, supply lightning transmission via Gigabit Ethernet ports
- Support 802.11b/g/n/ac Wave 2(Wi-Fi 5), allows 2.4G & 5.8G dual band concurrent data transmission rates up to 867 Mbps (Dual Band, MU-MIMO), Access Point (AP), Station (STA), repeater
- 4 x 10/100/1000 Ethernet ports: 1 x WAN (configurable as LAN), 3 x LAN
- Automated failover/failback backup among Ethernet, Cellular (dual SIM) and Wi-Fi
- Secure transmission with VPN tunnels like PPTP/L2TP/enhanced OpenVPN
- Supports APN/VPDN sim card
- Supports serial port transparent transmission, Modbus RTU to TCP, HTTP
- Supports ICMP keepalive check and heartbeat packet check to ensure the highest level of
- Supports DDNS, static routing, easy access to routers and subnets under routers
- Firewalls, NAT, DMZ, port forwarding, and access restriction are supported.
- Local and Remote management via Web GUI, SNMP
- Embedded GNSS option for real-time asset tracking and location data-based applications
- Supports serial ports (RS232/RS485), enabling you to scale up M2M applications

Specifications

Cellular Interface	Frequency	5G NR sub-6 GHz (3GPP Rel-16) Band (NA/NSA): n1/2/3/5/7/8/12/13/14/18/20/25/26/28/29/30/38/40/41/48/66/70/71/75/76/77/78/79; 4G LTE (CAT 19 DL / CAT 18 UL) LTE-FDD: B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/30/32/66/71; LTE-TDD: B34/38/39/40/41/42/43/48; LAA: B46;
	Maximum Transmission Data Rate	5G SA Sub-6: Max. 2.4Gbps (DL)/Max. 900Mbps (UL); 5G NSA Sub-6: Max. 3.4Gbps (DL)/Max. 550Mbps (UL) LTE-FDD: Max. 1.6Gbps (DL)/Max. 200Mbps (UL)
	Antennas	4 × SMA-K Connectors (Center PIN: SMA Female)
	SIM Slot	2 x (3 V/1.8 V) mini-SIM(2FF) Push-push type slot (SIM2 can be customized with a built - in eSIM)
Ethernet Interface	WAN	1 x WAN port (can be configured as LAN) 10/100/1000 Mbps, compliance with IEEE802.3, IEEE 802.3u, supports auto MDI/MDIX crossover, Ethernet Isolation 1.5 KV RMS
	LAN	3 x RJ45 port, 10/100/1000 Mbps, supports auto MDI/MDIX crossover, Ethernet Isolation1.5 KV RMS
Indicators	PWR	red, always on after powered on
	WORK	green, blinking every 1second when the router is ready and working properly

	NET	Mobile network type LEDs NET lights on after device is connected to the network. Green stands for 5G, green and red for 4G, and red for 3G
	SIG	Mobile signal strength indication LED Green represents excellent signal, two-color light represents good signal, red represents poor signal
	WLAN	always solid on when WiFi is enabled and working properly
	WAN	LED blinking When Connection established and data is being transferred over this port
	LAN	LED blinking When Connection established and data is being transferred over this port.
Wi-Fi Interface	Antennas	2 × SMA-K Connectors (Center PIN: SMA Female)
	MIMO	2×2
	Standards	Concurrent dual-band 802.11a/n/ac (5.8GHz) and 802.11b/g/n (2.4GHz)
	Modes	AP/AP+STA/AP+WDS repeater
	Data speed	Up to 1733Mbps wireless operation rate at 5.8GHz
	Security	Wi-Fi security with WPA-PSK, WPA2-PSK, Mixed WPA/WPA2-PSK, WPA2-PSK+CCMP
	Transmission distance	200 meters by line of sight. Actual transmission distance depends on environment of the site.

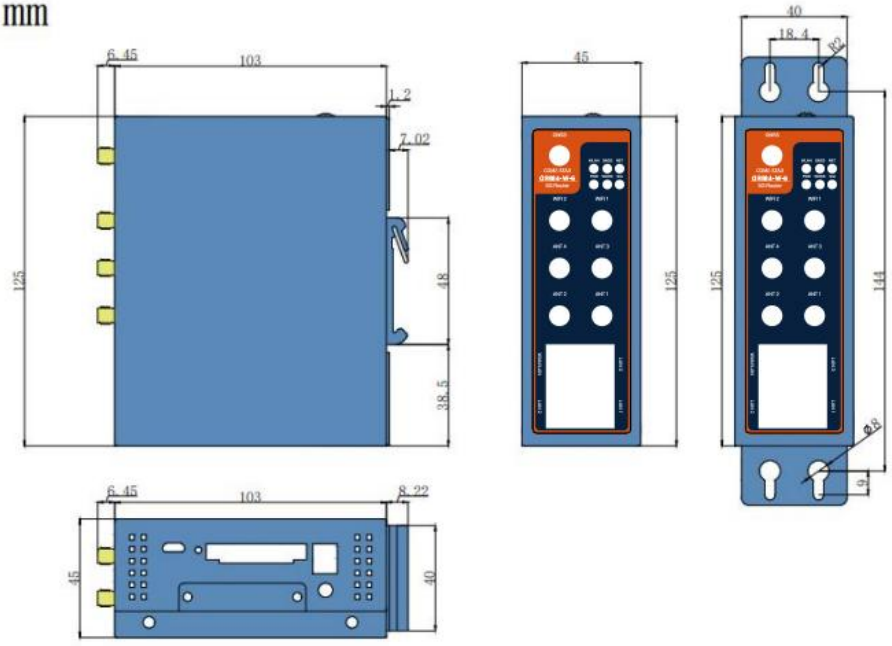
GNSS(Optional)	Antenna	1 × SMA-K Connector (Center PIN: SMA Female)
	Technology	GPS, GLONASS, BeiDou, Galileo
	Protocol	NMEA 0183
Power Supply	Adapter	DC 12V/2A
	Connector	DC Power Jack Barrel Type Female 5.5×2.1mm Round socket or industrial terminal block(V+,V-), reverse polarity protection
	Input voltage range	DC9-36V
	Power consumption	Average current 630mA@12V and the maximum current 1.6A@12V
Serial Interface	Numbers	1 × RS485/RS232
	Connector	Terminal block
	Baud Rate(bps)	1200,2400,4800,9600,19200,38400,57600,115200,230400,460800(only 485)
	Signal definition	RS232: TXD, RXD, GND RS485: A, B, GND
	Data bits	7,8

	Stop bits	1,2
	Parity	NONE, ODD, EVEN
Physical Characteristics	Casing material	Metal shell, ingress protection IP30
	Dimensions	125.0×103.0×45.0mm(L*W*H, antenna pedestal, terminal block and DIN Rail are not included)
	Installation	Desktop, wall mounting and DIN-rail
	EMC	Static IEC61000-4-2, level 3 Pulsed Electric Field IEC61000-4-4, level 3 Surge IEC61000-4-5, level 3
	Operating Temperature	-35°C~+40°C with adapter, after the test and evaluation, the product's actual operating temperature can reach -35°C ~75°C
	Storage Temperature	-40°C ~ +125°C (Non-condensing)
	Relative Humidity 0	5%~95%(Non-condensing)
Others	Reload button	1 × Reload
	TBD	Debug interface (TTL Level)
	Ground protection	Screw

	Built-in	Watchdog
Software	Network Protocols	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, DNS, ARP, NTP, Telnet, SSH, DDNS, etc.
	VPN	PPTP，L2TP，IPsec，Openvpn，GRE，VXLAN
	Security	Access Control, DMZ, Port Forwarding, SYN-Flood Protection, Filtering (IP& MAC &Domain)
	Management	Web UI, PUSR cloud
	Reliability	WAN Failover, Dual SIM Backup
	Serial port	Transparent (TCP Client/Server, UDP), Modbus Gateway (Modbus RTU to Modbus TCP)

Dimensions

UNIT: mm



Ordering Information

Standard Model	1G WAN Port	1G LAN Port	RS232/485	Input Voltage
CIR584-W-G	1	3	1	DC9~36V



Contact Us

COME-STAR COMMUNICATION(WUHAN) CO., LTD.
Address: Puneng Industrial Park, Fenghuang Garden 1st Road, East Lake High-Tech Development Zone, Wuhan, China.
Tel: +86-027-59257958
Mail: sales@come-star.com
Official site: www.come-star.com

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