

# SecFlow-1c-4Gm

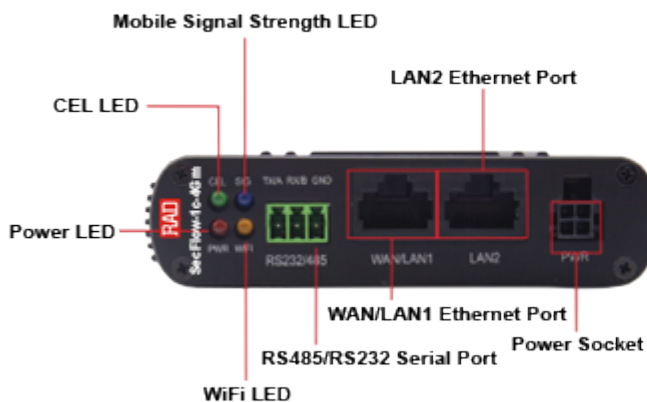
## Compact Industrial LTE Cellular Router



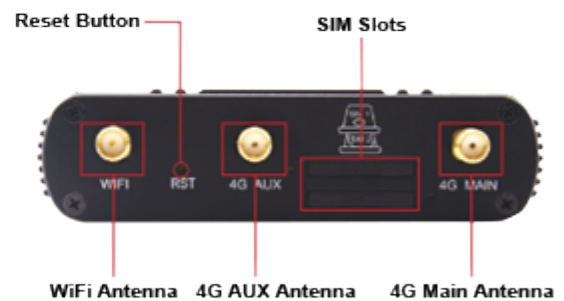
- Industrial Design, DIN Rail Mounting Supported
- 4G LTE Cat 4
- Reliable Connectivity with Dual SIM
- IEEE 802.11 b/g/n 2.4 GHz
- VPN Secure Connection
- 2 x Ethernet Interfaces (1 LAN/WAN, 1 LAN)
- 1 x RS-232/RS-485 Serial Port
- 2 x GPIO ports

SecFlow-1c-4Gm is Compact Industrial LTE Cellular Router designed to meet rugged specifications, DIN rail mounting, and improved cellular connectivity (up to 150Mbps). The product empowers industrial automation, smart city, and other data-intensive IoT applications in the transportation and retail sectors.

### Front View



### Rear View



Front and Rear Panels



# SecFlow-1c-4Gm

## Compact Industrial LTE Cellular Router

## Specifications

### HARDWARE

<b>Ethernet Ports</b>	1 x LAN/WAN (10/100Mbps), 1 x LAN (10/100Mbps)
<b>Mobile</b>	4G LTE CAT 4, 3G, 2G
<b>Wi-Fi</b>	IEEE 802.11 b/g/n, 2.4 GHz
<b>Serial Port</b>	1 x RS-232/RS-485
<b>WiFi Antennas</b>	1 x RP-SMA
<b>GPIO</b>	1 x DI, 1 x DO (on power socket)
<b>LED indicators</b>	Power, Network Connection, Wi-Fi, Mobile Status and Signal Strength, WAN
<b>Reset Button</b>	1

### CELLULAR AND GPS

<b>SIM Slots</b>	2
<b>SIM Switch</b>	2 SIM cards, auto-switch cases: weak signal, data limit, data connection fail
<b>Mobile Antennas</b>	2 x SMA
<b>Protocols</b>	Cellular IP Context. PPP, PAP, CHAP, APN per SIM
<b>GPS</b>	GPS, GLONASS, BeiDou, Galileo, NMEA forwarding (if GPS is hardware-supported)
<b>LTE Bands</b>	<b>EU</b> LTE FDD: B1/B3/B5/B7/B8/B28 LTE TDD: B38/B40/B41 WCDMA: B1/B5/B8 GSM/EDGE: B3/B8 <b>AU</b> LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28/B66 LTE TDD: B40 WCDMA: B1/B2/B4/B5/B8 GSM/EDGE: B2/B3/B5/B8 <b>NA</b> LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71 WCDMA: B2/B4/B5

### WI-FI

<b>Mode</b>	Access Point, Client
<b>Radio Mode</b>	IEEE 802.11 b/g/n, 2.4 GHz

### MANAGEMENT

<b>Access Control</b>	Flexible access control of SSH, Web interface, CLI, RADIUS Management access control. Possible to block access from local ports, or to block specific protocols (Web, SSH, etc.)
<b>Protocols and Security</b>	SSH (v1, v2), TLS 1.2, 1.3 SSH From LAN, WAN (ETH/Cellular) HTTPS From LAN, WAN (ETH/Cellular) SNMP (v1, v2, v3), SNMP Traps, access rights SYSLOG
<b>WEB UI</b>	Status, configuration, SW update, CLI, troubleshooting, availability notifications, event log, system log, kernel log, Internet status, configuration backup, FOTA
<b>Serial Functions</b>	Console, Serial over IP, Modem, Modbus gateway
<b>MQTT</b>	MQTT Broker, MQTT publisher
<b>Modbus</b>	Modbus RTU Modbus TCP to RTU Modbus TCP
<b>SMS</b>	SMS based device emergency actions Reboot, switch SIM card, get status, restore factory setting
<b>Programmable Reboot</b>	Every day/week, or cellular interface restart
<b>Continuous ICMP Ping</b>	Every X seconds to central IP
<b>Configuration Management</b>	Config download/upload using HTTPS or using CLI (sFTP)
<b>Firmware Management</b>	Firmware upload using HTTPS or using CLI (sFTP)
<b>MTTF</b>	30 years
<b>Statistics</b>	Ports & CPU statistics available via CLI/Web/SNMP

### RESILIENCY

<b>Network Backup</b>	Automatic failover between Mobile, Wi-Fi WAN and wired links
<b>Load Balancing</b>	Auto load balance over Mobile, Wired or WiFi links

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## Compact Industrial LTE Cellular Router

### NETWORKING CAPABILITIES

<b>Network Protocols</b>	NTP (Server, GPS synchronization) DNS, DDNS: DNS Client, Bind dynamic IP to static hostname
<b>DHCP</b>	Server, Client, Static and dynamic IP allocation
<b>VPN</b>	PPTP, L2TP, IPsec, GRE, OpenVPN
<b>VLAN</b>	802.1q
<b>Firewall</b>	L2/L3/L4 ACL Web Filter IP/Domain Filter Blacklist, Whitelist NAT/SNAT/DNAT MAC Filter DDOS Prevention
<b>Routing</b>	Static Routing Dynamic routing (RIP)

### DIAGNOSTICS

<b>Features</b>	Tcpdump Ping Tracert
<b>IP Monitoring</b>	Ping Reboot LCP and ICMP for link inspection Timing Task
<b>DI /DO /AI</b>	Status, report, switch

### GENERAL

#### Environment

<b>Casing Material</b>	Aluminum Polycarbonate
<b>Operating Temperature</b>	-30°C - +70°C
<b>Storage Temperature</b>	-40°C - +80°C

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### Physical

<b>Height</b>	24 mm
<b>Width</b>	90 mm
<b>Depth</b>	90 mm
<b>Weight</b>	200g

### Power

<b>Power Socket</b>	4 Pins PWR, ACC detection, GND
<b>I/O</b>	Digital input (0-5 VDC: low logic level/8-40 VDC: high logic level) Digital output: 4-pin connector (30 VDC, 0.3A)
<b>Operating Voltage</b>	8 – 32 VDC
<b>Power Consumption</b>	In idle mode: 0.96W Maximum: 3.75W

### Ordering

#### SF-1C-Q2/LT/NA

SecFlow-1c-4Gm, North America region LTE bands

#### SF-1C-Q2/LT/EU

SecFlow-1c-4Gm, European region LTE bands

#### SF-1C-Q2/LT/AU

SecFlow-1c-4Gm, Oceania region LTE band

The default is aluminum case. For Polycarbonate casing, add /PC in the end of the ordering string.

### SUPPLIED ACCESSORIES

#### SF-1C-AC-12VDC-24W-2A

External AC to 12 VDC 24W 2A power supply

#### North American Headquarters

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