

# SecFlow-1c-4G

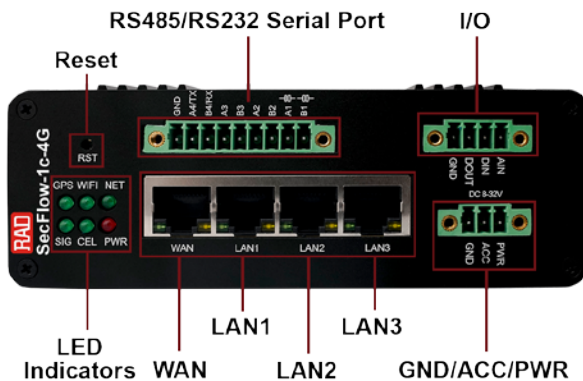
## Industrial LTE Cellular Router



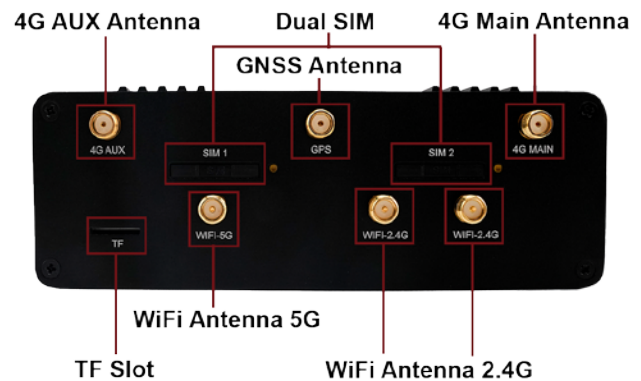
- Industrial Design, DIN Rail Mounting Supported
- 4G LTE Cat 4
- Reliable Connectivity with Dual SIM
- IEEE 802.11 b/g/n/ac, 2.4/5 GHz
- VPN Secure Connection
- 4 Ethernet Interfaces (1 WAN, 3 LAN)
- RS-232 and RS-485 Serial Ports
- 3 GPIO ports
- GNSS Location
- Smart field upgrade with TF card
- External storage

SecFlow-1c-4G is an industrial LTE cellular router designed to meet rugged specifications, DIN rail mounting, and improved cellular connectivity (up to 150 Mbps). 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



Your Network's Edge®

# SecFlow-1c-4G

## Industrial LTE Cellular Router

## Data Sheet

### Specifications

#### HARDWARE

<b>Ethernet Ports</b>	1 x LAN/WAN (10/100Mbps), 3 x LAN (10/100Mbps)
<b>Mobile</b>	4G LTE CAT 4, 3G, 2G
<b>Wi-Fi</b>	IEEE 802.11 b/g/n/ac, 2.4/5 GHz
<b>Serial Ports</b>	1 x RS-232 3 x RS-485
<b>TF Slot</b>	1
<b>WiFi Antennas</b>	3 x RP-SMA
<b>GNSS Antenna</b>	1 x SMA
<b>GPIO</b>	3 x GPIO – DI, DO, AI
<b>LED indicators</b>	Power, Network Connection, Wi-Fi, GNSS, 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 Global Modem Bands</b>	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28 LTE TDD: B38/B39/B40/B41 UMTS: B1/B2/B4/B5/B6/B8/B19 GSM: B2/B3/B5/B8
<b>LTE Data Speed</b>	<b>LTE</b> LTE-FDD: Max 150Mbps (DL)/Max 50Mbps (UL) LTE-TDD: Max 130Mbps (DL)/Max 30Mbps (UL) <b>UMTS</b> DC-HSDPA: Max 42Mbps (DL) HSUPA: Max 5.76Mbps (UL) WCDMA: Max 384Kbps (DL)/Max 384Kbps (UL) <b>GPRS</b> Max 107Kbps (DL)/Max 85.6Kbps (UL) <b>EDGE</b> Max 296Kbps (DL)/Max 236.8Kbps (UL)

#### WI-FI

<b>Mode</b>	Access Point, Client
<b>Radio Mode</b>	IEEE 802.11 b/g/n/ac, 2.4/5 GHz
<b>Wi-Fi Data Speed</b>	Up to 433Mbps for 802.11ac 80 MHz channel data rates

### 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 MQTT GW</b>	Allows sending commands and receiving data from MODBUS server through MQTT broker
<b>ModBus</b>	Modbus master, Modbus client
<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>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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### NETWORKING CAPABILITIES

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

### DIAGNOSTICS

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

### GENERAL

#### Environment

Casing Material	Aluminum housing
Operating Temperature	-30°C - +75°C
Storage Temperature	-40°C - +85°C

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### Physical

Height	45 mm
Width	130 mm
Depth	100 mm
Weight	494g

### Power

Power Socket	PWR, ACC detection, GND
Input/Output	4 Pins, GND, DI, DO, AI
Operating Voltage	8 – 32 VDC

### Ordering

#### SF-1C-Q1/LT/GL

SecFlow-1c-4G, global region LTE bands

### OPTIONAL ACCESSORIES

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

External AC to 12 VDC 24W 2A power supply

#### North American Headquarters

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