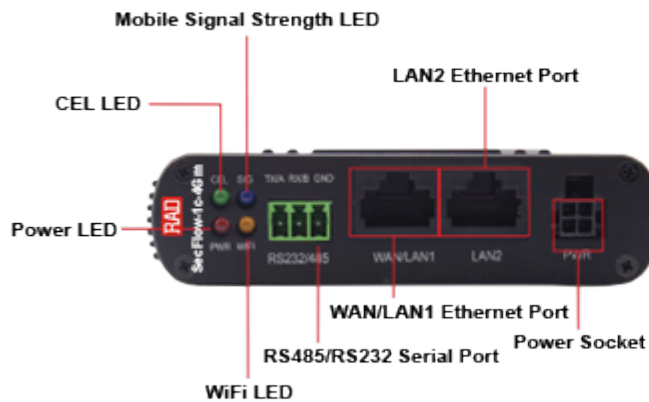# SecFlow-1c-4Gm

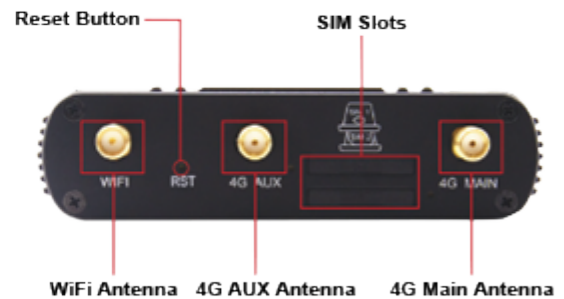## Compact Industrial LTE Cellular Router

- 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 and Rear Panels

RAD
Your Network's Edge®

SecFlow-1c-4Gm
Compact Industrial LTE Cellular Router

Specifications

HARDWARE

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

CELLULAR AND GPS

SIM Slots	2
SIM Switch	2 SIM cards, auto-switch cases: weak signal, data limit, data connection fail
Mobile Antennas	2 x SMA
Protocols	Cellular IP Context. PPP, PAP, CHAP, APN per SIM
GPS	GPS, GLONASS, BeiDou, Galileo, NMEA forwarding (if GPS is hardware-supported)
LTE Bands	**EU** LTE FDD: B1/B3/B5/B7/B8/B20/B28 LTE TDD: B38/B40/B41 WCDMA: B1/B5/B8 GSM/EDGE: B3/B8
	AU 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
	NA LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71 WCDMA: B2/B4/B5

WI-FI

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

MANAGEMENT

Access Control	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.)
Protocols and Security	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
WEB UI	Status, configuration, SW update, CLI, troubleshooting, availability notifications, event log, system log, kernel log, Internet status, configuration backup, FOTA
Serial Functions	Console, Serial over IP, Modem, MODBUS gateway
MQTT	MQTT Broker, MQTT publisher
Modbus MQTT GW	Allows sending commands and receiving data from MODBUS server through MQTT broker
ModBus	Modbus master, Modbus client
SMS	SMS based device emergency actions
	Reboot, switch SIM card, get status, restore factory setting
Programmable Reboot	Every day/week, or cellular interface restart
Continuous ICMP Ping	Every X seconds to central IP
Configuration Management	Config download/upload using HTTPS or using CLI (sFTP)
Firmware Management	Firmware upload using HTTPS or using CLI (sFTP)
MTTF	30 years
Statistics	Ports & CPU statistics available via CLI/Web/SNMP

RESILIENCY

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

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
	DDOS Prevention
Routing	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
	Polycarbonate
Operating Temperature	-30⁰C - +70⁰C
Storage Temperature	-40⁰C - +80⁰C

Physical

Height	24 mm
Width	90 mm
Depth	90 mm
Weight	200g

Power

Power Socket	4 Pins PWR, ACC detection, GND
Operating Voltage	8 – 32 VDC
Power Consumption	<10W typ

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

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