

SecFlow-1c-5G

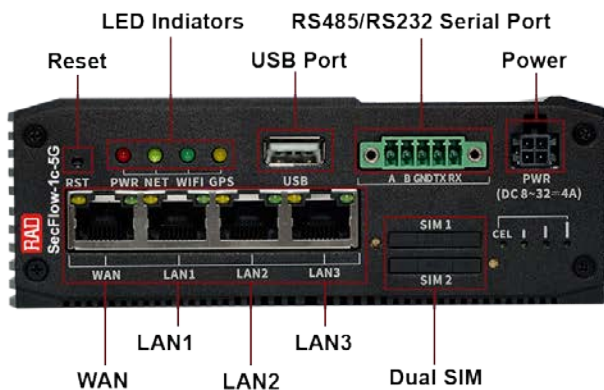
Industrial 5G Cellular Router



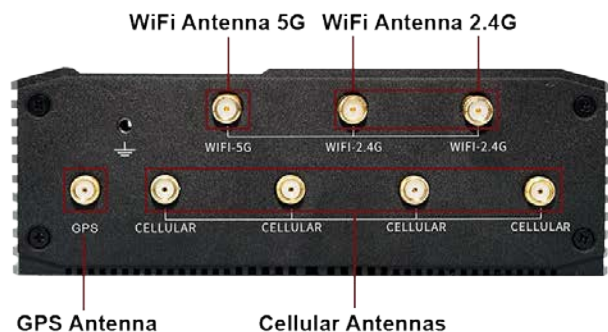
- Industrial Design, DIN Rail Mounting Supported
- 5G SA/NSA
- Reliable Connectivity with Dual SIM
- Wi-Fi 6/5/2.4 GHz
- VPN Secure Connection
- 4 Ethernet Interfaces (1 WAN, 3 LAN)
- 1 x RS-232 + 1 x RS-485 Serial Ports
- GNSS Location
- BLE 5.2

SecFlow-1c-5G is a premier solution for industrial connectivity, offering cutting-edge 5G technology for high-speed and reliable data transfer. With Dual SIM functionality, it provides continuous communication and network redundancy. APN/VPDN private network access and dual SIM backup design guarantee data transmission security and provide high-speed, reliable routing and data transmission capabilities. Equipped with 5 Gbps Ethernet ports, Wi-Fi 6.0, RS-232/RS-485 port, it can be widely used in telecommunications, finance, information media, branch office, smart city and smart factory.

Front View



Rear View



SecFlow-1c-5G

Industrial 5G Cellular Router

Data Sheet

Specifications

HARDWARE

Ethernet Ports	1 x WAN (10/100/1000 Mbps), 3 x LAN (10/100/1000 Mbps)
Mobile	5G SA/NSA + 4G LTE + WCDMA
Wi-Fi	IEEE 802.11 b/g/n/ac/ax, 2.4/5G/6GHz
Serial Ports	1 x RS-232 1 x RS-485
TF Slot	1
WiFi Antennas	3 x RP-SMA
GNSS Antenna	1 x SMA
GPIO	1 x DI, 1 x DO
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	4 x SMA for 5G
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 Cat 19 (Downlink) / Cat 18 (Uplink) LTE-FDD: B1/B3/B5/B7/B8/B20/B28/B32 LTE-TDD: B38/B40/B41/B42/B43 WCDMA: B1/B5/B8 AU Cat 19 (Downlink) / Cat 18 (Uplink) LTE-FDD: B2/B4/B5/B7/B8/B26/B28/B66 LTE-TDD: /B38/B40/B42/B43 WCDMA: B2/B4/B5 NA Cat 19 (Downlink) / Cat 18 (Uplink) LTE-FDD: B2/B4/B5/B7/B12/B13/B14/ B17/B25/B26/B29/B30/B66/B71 LTE-TDD: B38/B41/B42/B43/B48

5G NR Bands	EU 3GPP Rel-16 NSA/SA operation, Sub-6 GHz 5G NR NSA: n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n75/n76/n77/n78 5G NR SA: n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n75/n76/n77/n78 AU 3GPP Rel-16 NSA/SA operation, Sub-6 GHz 5G NR NSA: n2/n5/n7/n8/n28/n38/n40/n6/n71/n78 5G NR SA: n2/n5/n7/n8/n28/n38/n40/n6/n71/n78 NA 3GPP Rel-16 NSA/SA operation, Sub-6 GHz 5G NR NSA: n2/n5/n7/n12/n13/n14/n25/n26/n29/n30/n38/n41/n48/n66/n70 /n71/n77/n78 5G NR SA: n2/n5/n7/n12/n13/n14/n25/n26 /n29/n30/n38/n41/n48/n66/n70 /n71/n77/n78
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WI-FI

Mode	Access Point, Client
Radio Mode	IEEE 802.11 b/g/n/ac/ax, 2.4/5G/6GHz z

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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)
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

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GENERAL

Environment

Casing Material	Aluminum housing
Operating Temperature	-30°C - +70°C
Storage Temperature	-40°C - +85°C

Physical

Height	45 mm
Width	130 mm
Depth	100 mm
Weight	552g

Power

Power Socket	PWR, ACC detection, GND
Operating Voltage	8 – 32 VDC

Ordering

SF-1C-Q3/5G/NA

SecFlow-1c-5G, North America region LTE bands

SF-1C-Q3/5G/EU

SecFlow-1c-5G, European region LTE bands

SF-1C-Q3/5G/AU

SecFlow-1c-5G, Oceania region LTE band

SUPPLIED ACCESSORIES

SF-1C-AC-12VDC-48W-4A

External AC to 12 VDC 48W 4A power supply

International Headquarters

24 Raoul Wallenberg St., Tel Aviv 6971920, Israel
Tel/Fax 972-52-4748272 | Fax 972-3-6498250
Email market@rad.com

North American Headquarters

900 Corporate Drive, Mahwah, NJ 07430, USA
Tel 201-529-1100 | Toll Free: 800-444-7234 | Fax: 201-529-5777
Email market@radusa.com



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