## **Ruggedized Multiservice Gateway**



- Enhanced security capabilities: stateful firewall, VPNs, automated PKI and optional SCADA-aware firewall
- Resilient HSPA+/LTE cellular network uplink for maximum service continuity and built-in GNSS for location reporting
- Reduced OPEX with secure Zero Touch provisioning
- Hosting of third-party software for customized applications (edge computing)
- SCADA protocol gateway for IEC-101, IEC-104, Modbus-RTU/TCP, and DNP3 protocols
- Option for second cellular modem, WiFi, or LoRaWAN
- Embedded, isolated DC power supply
- Enhanced EMI and immunity according to IEC 61850-3, IEEE 1613\*, EN 50121-4
- Certified for use in AT&T wireless network

SecFlow\*-1v is a multiservice gateway optimized for industrial IoT and other mission-critical applications, a member of RAD's SecFlow suite of ruggedized Ethernet products.

In addition to its communication capabilities, SecFlow-1v is an open platform suitable for quick introduction of new capabilities, by hosting third-party software, using Linux containers.

SecFlow-1v features four GbE Copper ports with PoE options and one GbE SFP port, two serial RS-232 ports or one RS-232 and one RS-485/2W port, and a cellular modem with two SIM cards for maximum link resiliency.

SecFlow-1v is equipped with serial interfaces for connectivity of legacy RTUs with new IP-based IED systems. SecFlow-1v gateway converts legacy IEC-101 protocol to IP-based IEC-104, Modbus-RTU to Modbus/TCP and encapsulated DNP3 serial to DNP over IP, enabling seamless communication from IP SCADA to both old and new RTUs. This provides a single box solution for multi-service applications and smooth migration to all-IP networks.

In addition to its cellular uplink that provides wireless connection towards the network, SecFlow-1v can be equipped with additional wireless technologies. When equipped with WiFi, SecFlow-1v acts as an access point, aggregating several users, such as on-site technicians or sensors, saving the need for wired connection or multiple costly cellular connections from each device.

When equipped with LoRaWAN radio, SecFlow-1v aggregates multiple low-power low-bandwidth sensors/meters deployed over a wide area. This provides an ideal solution for rural and other non-dense areas saving CAPEX and OPEX.

The gateway is designed for installation under harsh environmental conditions. It features DIN-rail mount, IP30 protection level, wide operating temperature range (-40°C to 75°C) without fans, and EMI immunity (IEC 61850-3, IEEE 1613 and EN 50121-4).

SecFlow-1v supports several powering options that all use an embedded isolated DC power supply, to meet the harsh environmental requirements.

### **MARKET SEGMENTS AND APPLICATIONS**

SecFlow-1v addresses Industrial IoT, for example:

- Distributed automation in secondary substations
- Smart meter and sensors concentration
- Water resources management
- Industry 4.0
- Smart and safe cities
- Out-of-band management using cellular uplink
- Smart retail

### **INTEROPERABILITY**

SecFlow-1v operates with RAD SecurityGateway, SecFlow-1, SecFlow-2, and with third party VPN aggregators.

### **ROUTER AND VPN SERVICES**

SecFlow-1v features static routing, RIPv2, OSPF, BGP, VRF and NAT/NAT-Traversal.

The device features a VPN gateway with two operation modes:

- Inter-site connectivity using IPsec or Open VPN tunnels
- Remote user access, using SSH



<sup>\*</sup> This feature will be released in a future version.

## **Ruggedized Multiservice Gateway**

Inter-site VPN-based encrypted link ensures L3 transparent connection of the Ethernet networks sites.

For remote access, the router uses an SSH-encrypted tunnel, with user authentication and specific access authorization.

### **LAYER-2 SWITCH**

SecFlow-1v provides local switching capabilities with and without VLAN support, maintaining 2K MAC addresses and 16 broadcast domains (VLAN IDs).

### QoS:

- Ingress policer, egress shaper
- Classification based on: Port, 802.1p, IPv4 DCSP
- Scheduling
  - Four priority queues
  - Strict and Weighted Round Robin (WRR)

### **MANAGEMENT AND SECURITY**

The device can be managed via the SecFlow web-based interface (HTTP/HTTPS).

For easy and safe deployment, RAD offers Zero Touch provisioning thus reducing OPEX and providing a simple way to securely deploy thousands of elements in the network.

SecFlow-1v also supports a variety of access protocols, including CLI and TFTP/SFTP.

### SCADA-Aware Firewall\*

SecFlow-1v supports SCADA-aware firewall, providing network-based distributed security, especially designed for critical infrastructure SCADA applications (IEC-104, DNP3-TCP, and Modbus-TCP). The device monitors SCADA commands, using deep packet inspection, to validate whether they fit the intended application purpose.

## Remote Terminal Unit/Programmable Logic Controller

Ordering options with Programmable Logic Controller (PLC) present an all-in-one-box solution from a single source for distribution automation, industrial automation, building automation, etc., supporting Modbus, DNP3, IEC-104 and BACnet SCADA masters. The devices can be programmed using:

- Ladder logic in accordance with EC 61131-3
- Instruction List (IL)
- Functional Block Diagram (FBD)
- Sequential Function Chart (SFC)
- Structured Text (ST)

SecFlow-1v devices with PLC module offer comprehensive cyber security relying on stateful firewall or SCADA firewall (optional), VPNs such as IPsec and OpenVPN, automated PKI, as well as RADview management with SIEM. Zero Touch provisioning allows secure service activation and maintenance, with low OPEX.

<sup>\*</sup> This feature will be released in a future version.

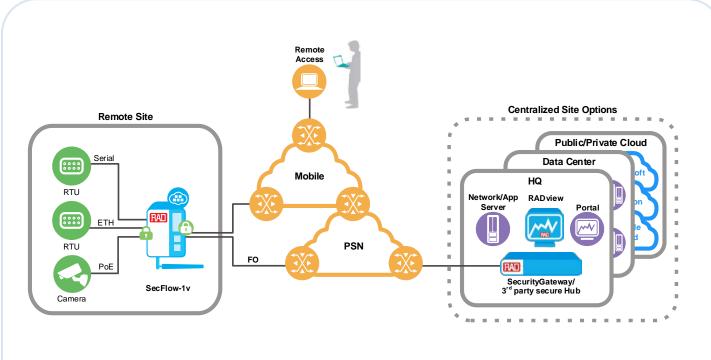


Figure 1. Industrial IoT Backhaul

## **Ruggedized Multiservice Gateway**

## **Specifications**

## **CAPACITY**

## **ETHERNET INTERFACES**

Fiber	1 x 1000FX, SFP socket
Copper	4 x 10/100/1000BASE-T
PoE (optional)	2 x 30W, 4 x 15W, 1 x 60W*
Max Frame Size	1.5 kB

## **SERIAL INTERFACES**

Isolation	Non-isolated/Isolated (for specific ordering options)
Serial	2 x RS-232 ports
Interface	1 x RS-232 + 1 x RS-485 ports

### **BRIDGE**

Compliance	IEEE 802.1Q
Max. Number of Concurrent VLANs (Broadcast domains)	16
MAC Address Table	2K
Operation Mode	VLAN-aware learning bridge

## **MODEMS**

Dual SIM Cellular Modem	LTE bands
	HSPA+/EVDO networks (technology backward
	compatible)
FOTA	Firmware upgrade Over the Air
Configurable	PAP, CHAP
Cellular	
Authentication	
Certification	Verizon Wireless*
	PTCRB certification
SIM Card	Mini SIM, 25 mm x 15 mm (0.98 in x 0.59 in
	Form factor: 2FF
WiFi Module	IEEE 802.11ac/a/b/g/n
	Dual band 2.4GHz or 5GHz (software selectable)
	Up to 8 users
LoRaWAN	433MHz/868MHz/915MHz/923MHz bands
Modem	SX1301 base band processor emulating 49 x LoRa
	demodulators, 10 parallel demodulation paths
	8 uplinks channel and 1 downlink channel
	2 x SX125x Tx/Rx front-ends high/low
-	

	Tx power up to 25 dBm, Rx sensitivity down to - 139 dBm @ SF12, BW 125 kHz
	UDP packet forwarder
LoRaWAN Server (optional)	As per specification v1.0.4

**Table 1. Modem Frequency Bands** 

•	Modem Category and Frequency Bands
Code	
L1	CAT 4 EMEA/Korea/Thailand
	LTE FDD: B1/B3/B5/B7/B8/B20
	LTE TDD: B38/B40/B41
	WCDMA: B1/B5/B8
	GSM: B3/B8
L2	CAT 4 North America (AT&T)
	LTE FDD: B2/B4/B12
	WCDMA: B2/B4/B5
L3	CAT 4 Australia/New Zealand/Taiwan/Brazil
	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28
	LTE TDD: B40
	WCDMA: B1/B2/B5/B8
	GSM: B2/B3/B5/B8
L4	CAT 4 North America, Verizon wireless + AT&T LTE
	LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71
	WCDMA: B2/B4/B5

## **NETWORKING**

VPN	L3 mGRE DMVPN
	L3 IPsec VPN
	OpenVPN client
Gateway	SCADA gateway for IEC101/104, Modbus RTU/TCP and DNP3

## **QUALITY OF SERVICE (QOS)**

Policing	Per port ingress policer, L1 rate, CIR
Egress Queues	4 queues per port
Queue Mapping	Per ingress port; p-bit mapping, dscp mapping
Scheduling	Strict Priority / WRR
Shaping	Per port egress shaper, L1 rate, CIR

## **ROUTER**

Protocols	RIPv2, OSPFv2, BGP, VRF, IPv4, IPv6, NAT, NAT-T
Static routing	

<sup>\*</sup>This feature will be released in a future version.

## **Ruggedized Multiservice Gateway**

## **RTU/PLC**

•	
Inputs	6 x digital inputs, max DC input voltage 24 VDC
	6 x analog inputs as ordering options:
	• 0-5 VDC
	• 0-12 VDC
	• 0-24 VDC
Outputs	6 x digital outputs:
	<ul> <li>relay-based ordering option: 3 pins;</li> <li>NO/COM/NC, 250 VAC/8 A max, 400 VDC/8 A max</li> </ul>
	<ul> <li>solid state relay-based ordering option for Class I/DIV 2 certified (Hazloc) devices: 2 pins; NO/COM, 100 VAC/100 mA max, 140 VDC/100 mA max</li> </ul>
Web GUI	
Northbound to SCADA Masters	Modbus, DNP3, IEC-104, BACnet
Masters	Up to 5 concurrent masters
	Modbus TCP
	DNP3 TCP or BACnet TCP
	IEC-104
Additional I/O	Up to 400
Points	Split between 2 Modbus-RTU
Slaves	Up to 10 Modbus-TCP slaves

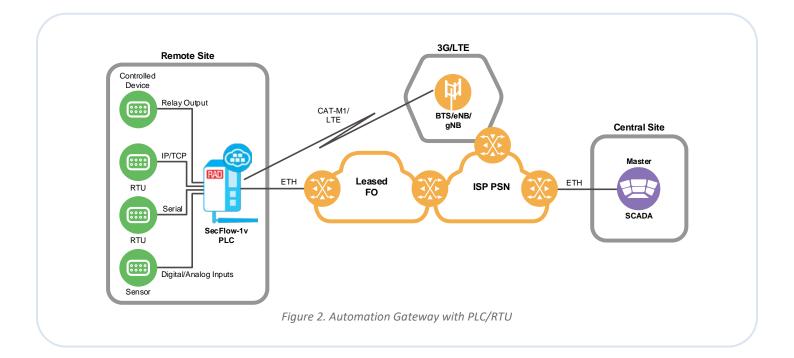
## **MANAGEMENT**

Control Port	RS-232 interface, RJ45 connector
DHCP	DHCP client
	DHCP server for WiFi clients
Protocols	TFTP/SFTP
	Web-based interface using HTTPS or HTTP
Options	CLI with password-protected access
	SMS commands
	USB 2.0 host for software upload*
	SD memory card*

## **TIMING**

Timing	Local time setting
	SNTP

<sup>\*</sup>This feature will be released in a future version.



## **Ruggedized Multiservice Gateway**

## **SECURITY**

Firewall	Stateful firewall	
	SCADA-aware firewall	
Login	Login lockout	
ACL	ACL with MAC white list	
TACACS+ Multiuser TACACS+		
IPsec	AES128 and AES256 GCM encryption	
	PKI with X.509 certification	
	IKEv1, IKEv2, SHA2	
	Interoperability with SCEP server 2012 and higher	

## **RESILIENCY**

Routing	Dynamic routing, OSPFv2, BGP	
Cellular ISP Redundancy	SIM cards backup or dual modem support	
IPsec VPN	Policy-based	
Redundancy	Route-based	

## **MONITORING**

GNSS	GPS – American (default)
	Galileo – European

## **DIAGNOSTICS**

Interface Counters	Per port
Syslog	
SNMPv3	GET and traps
LEDs	Including alarm indication
Dry Contacts 2-in and 2-out	
SMS	Status indication

## **GENERAL**

Compliance	Enhanced EMI and immunity according to EN 50121-4
	IEC 61850-3
	IEEE 1613*

## **Environment**

Storage Temperature	-40 to 85°C (-40 to 185°F)	
Operating	Enclosure 1: -40 to 65°C (-40 to 149°F)	
Temperature	Enclosure 2: -40 to 75°C (-40 to 167°F) w/o PoE -40 to 65°C (-40 to 149°F) with PoE	
	Enclosure 3: -40 to 60°C (-40 to 140°F)	
Humidity	Up to 90%	
Note: The actual chassis and operating temperature depend on the		

ordering options.

## **Physical**

Table 2.Dimensions and Weight

	Enclosure 1 (E1)	Enclosure 2 (E2)	Enclosure 3 (E3)
Height	138 (5.43)	157.2 (6.19)	146 (5.74)
mm (in)			
Width	53.3 (2.1)	82.8 (3.25)	91.2 (3.59)
Depth	123.3 (4.85)	150 (5.9)	132.6 (5.22)
Weight	0.88 kg (1.94 lb)	1.4 kg (3.1 lb)	1.6 kg (3.5 lb)

## Power

Power Supply	Embedded isolated power supply	
	12V: 11–30 VDC	
	48V: 44–57 VDC (Dual power inlet)	
	WDC: 20–60 VDC (Dual power inlet)	
Power	Enclosure 1: < 10 W	
Consumption	Enclosure 2: < 17 W (regular operation / no PoE) < 77 W (60W for PoE)	
	Enclosure 3: < 17 W	

<sup>\*</sup>This feature will be released in a future version.

## **Ruggedized Multiservice Gateway**

## **Ordering**

### Legend

### SF-1V/Ex/@/R/#/\$/%/Lx/\*/Lx/&/^/LRx/PLC/!

L-V	( ha	SSIS
-	Cila	3313

E1 E1 enclosure
E2 E2 enclosure
E3 E3 enclosure

@ Power Supply

12V 12 VDC (11–30 VDC) 48V 48 VDC (44–57 VDC) WDC Wide-range 20–60 VDC

R Random-access memory (RAM)

2R 2GB

# Ethernet Ports

4U1S 1 x 1000FX, 4 x 10/100/1000BASE-T ports

\$ Power over Ethernet (PoE)

POE POE on 4 x 10/100/1000BASE-T

2PA PoE on 2 x 10/100/1000BASE-T for RAD's

Airmux and standard PoE for the

remaining 2 x 10/100/1000BASE-T ports

% Serial Ports

2RS 2 x RS-232 ports

2RSM 1 x RS-232 port, 1 x RS-485 port

Lx Cellular Ports

HSP HSPA+ (high-speed packet access)

modem, 3.5 Gb

L1 LTE modem for Europe

L2 LTE modem for North America AT&T L3 LTE modem for Oceania and Latin

America

L4 LTE modem for North America, Verizon

wireless + AT&T

### Notes:

- L1(2,3,4) means that any of L1/L2/L3/L4 options can be ordered.
- In options with dual modems, both modems are of the same type (HSP, L1, L2, L3, or L4).
- The cellular modem is supplied with two matching antennas (see Supplied Accessories).
- \* GNSS

G Integrated GPS

**Note:** The GPS modem is supplied with one antenna (see **Supplied Accessories**).

& WiFi Interface

NF Wireless LAN

**Note:** The WiFi modem is supplied with two matching antennas (see **Supplied Accessories**).

^ Ruggedized Options

RG extended temperature, IEC 61850-3 and

IEEE-1613 compliant

RL EN 50121-4 certified

GO extended temperature, Class I/DIV 2

certified

### LRx LoRaWAN Modem

LR1	LoRaWAN modem with 8 channels and
	frequency scheme according to EU433
LR2	LoRaWAN modem with 8 channels and
	frequency scheme according to EU868
LR3	LoRaWAN modem with 8 channels and
	frequency scheme according to AU915
LR4	LoRaWAN modem with 8 channels and
	frequency scheme according to US915
LR6	LoRaWAN modem with 8 channels and
	frequency scheme according to AS923
Note: The LoRaW	AN modem is supplied with one matching

PLC Programmable Logic Controller

PLC 6 digital inputs, 6 digital outputs, 6 analog

inputs, 5 VDC

PLC12 6 digital inputs, 6 digital outputs, 6 analog

inputs, 12 VDC

PLC24 6 digital inputs, 6 digital outputs, 6 analog

inputs, 24 VDC

PLCGO Class I/DIV 2 certified (Hazloc) - 6 digital

inputs, 6 digital outputs, 6 analog inputs

5 VDC, solid-state relay-based

PLCGO12 Class I/DIV 2 certified (Hazloc) - 6 digital

inputs, 6 digital outputs, 6 analog inputs

12 VDC, solid-state relay-based

PLCGO24 Class I/DIV 2 certified (Hazloc) - 6 digital

inputs, 6 digital outputs, 6 analog inputs

24 VDC, solid-state relay-based

**Note:** PLC software is included upon ordering the /PLC ordering

option.

! uCESP Container

CSP RS232 control signals (DTR and DCD) on

S1 port managed by the uCESP container

<sup>\*</sup> This feature will be released in a future version.

## **Ruggedized Multiservice Gateway**

### **RECOMMENDED CONFIGURATIONS**

SF-1V/E1/12V/4U1S/2RS/HSP

SF-1V/E1/12V/4U1S/2RS/HSP/G

SF-1V/E1/12V/4U1S/2RS/L1(2,3,4)

SF-1V/E1/12V/4U1S/2RS/L1(2,3,4)/G

SF-1V/E1/12V/4U1S/2RSM/HSP

SF-1V/E1/12V/4U1S/2RSM/L1(2,3,4)

SF-1V/E1/WDC/4U1S

SF-1V/E1/WDC/4U1S/2RS/RL

SF-1V/E1/WDC/4U1S/2RS/HSP

SF-1V/E1/WDC/4U1S/2RS/L1(2,3,4)

SF-1V/E2/12V/4U1S/2RS/HSP/G/WF

SF-1V/E2/12V/4U1S/2RS/HSP/G/HSP

SF-1V/E2/12V/4U1S/2RS/L1(2,3,4)/L1(2,3,4)

SF-1V/E2/12V/4U1S/2RS/L1(2,3,4)/G/L1(2,3,4)

SF-1V/E2/12V/4U1S/2RS/L1(2,3,4)/G/WF

SF-1V/E2/12V/4U1S/2RS/L4/G/GO

SF-1V/E2/12V/4U1S/2RSM

SF-1V/E2/48V/4U1S/POE

SF-1V/E2/48V/4U1S/POE/2RS

SF-1V/E2/48V/4U1S/POE/2RS/HSP

SF-1V/E2/48V/4U1S/POE/2RS/HSP/G/WF

SF-1V/E2/48V/4U1S/POE/2RS/L1(2,3,4)

SF-1V/E2/48V/4U1S/POE/2RS/L1(2,3,4)/L1(2,3,4)

SF-1V/E2/48V/4U1S/POE/2RS/L1(2,3,4)/G/WF

SF-1V/E2/48V/4U1S/POE/2RS/L1(2,3,4)/G/L1(2,3,4)

SF-1V/E2/48V/4U1S/POE/2RS/L1/G/LR1

SF-1V/E2/48V/4U1S/POE/2RS/L1/G/LR2

SF-1V/E2/48V/4U1S/POE/2RS/L3/G/LR3

SF-1V/E2/48V/4U1S/POE/2RS/L3/G/LR6

SF-1V/E2/48V/4U1S/POE/2RS/L4/G/LR4

SF-1V/E2/48V/4U1S/POE/2RSM/L1/G/LR2

SF-1V/E2/48V/4U1S/POE/2RS/L1(2,3,4)/WF

SF-1V/E2/48V/4U1S/2PA/2RS

SF-1V/E2/WDC/4U1S

SF-1V/E2/WDC/4U1S/L1/WF

SF-1V/E2/WDC/4U1S/2PA/2RS/HSP

SF-1V/E2/WDC/4U1S/2PA/2RS/L1(2,3,4)

SF-1V/E2/WDC/4U1S/2RS/L1(2,3,4)/WF

SF-1V/E2/WDC/4U1S/2RS/HSP/WF

SF-1V/E2/WDC/4U1S/2RS/HSP/G/HSP

SF-1V/E2/WDC/4U1S/2RS/L1(2,3,4)/G/L1(2,3,4)

SF-1V/E2/WDC/4U1S/2RSM

SF-1V/E3/48V/4U1S/POE/2RS/L1(2,3,4)/PLC

SF-1V/E3/48V/4U1S/POE/2RSM/L1(2,3,4)/PLC12

SF-1V/E3/48V/4U1S/POE/2RSM/L1(2,3,4)/PLC24

SF-1V/E3/WDC/2R/4U1S/2RS/L4/G/L4/PLC

SF-1V/E3/WDC/2R/4U1S/2RS/L4/G/PLC

SF-1V/E1/12V/4U1S/2RS/L1(4)/G/RG\*

SF-1V/E1/12V/4U1S/2RSM/L1(4)/G/RG\*

SF-1V/E1/WDC/4U1S/2RS/L1(L4)/G/RG\*

SF-1V/E1/WDC/4U1S/2RS/CSP\*

SF-1V/E1/WDC/4U1S/2RS/L1/CSP\*

SF-1V/E1/WDC/4U1S/2RSM/L1/G/RG\*

SF-1V/E2/WDC/4U1S/2RS/L1(2,3,4)/RG\*

Please contact RAD Sales for more details on future products.

### SPECIAL CONFIGURATIONS

### **Zero Touch Provisioning**

### **PS-ZT-PRE CONFIGURATION**

One Zero Touch pre-configuration service package per each SecFlow-1v unit

and either of the following:

### **PS-ZT-STAGING**

Local Zero Touch staging service package (one per project)

### **PS-ZT-ONSITE-STAGING**

Onsite Zero Touch staging service package (one per project)

Please contact your local RAD partner for additional configuration options.

<sup>\*</sup> This ordering option is part of RAD's roadmap. Regarding availability, follow updates of official rollout and release announcements.

## **Ruggedized Multiservice Gateway**

### **SUPPLIED ACCESSORIES**

### SF-ANT-GPS-PAS-3DBI-MAG/3M

GPS passive antenna, 3m, for options with integrated GPS

### SF-ANT-HSP-2DBI-SMA

HSP antenna, 2 dBi, for options with HSPA+ (high-speed packet access) modem

### SF-ANT-LTE699-4DBI-SMA

LTE antenna, 4dBi, for options with LTEx modems

### SF-ANT-WIFI-DUALBAND-3DBI-SMA

WiFi dual band antenna, 3 dBi, for options with WiFi modem

### **OPTIONAL ACCESSORIES**

### CBL-RJ45/D9/F/6FT

Serial console and RS-232 data ports cable

### CBL-RJ45/D9/F/DM

RJ45 to DB9 female shielded cable for /CSP option, 2m

### CBL-SF-RJ45-RS485

RS485 open-ended shielded cable RJ45-DB

### **RM-DIN-SINGLE**

Rack Mount adaptor for single DIN RAIL device

#### RM-DIN-19

19" Rack Mount adaptor for DIN RAIL device

### **USB** holder kit

For SF-1V/E2/12V/4U1S/2RS/L4/G/GO ordering option

### **Power Supplies**

SF-AC-48VDC-40W (to be used with non-POE options)

External DIN rail AC to 48 VDC power supply, 40 W,  $-20 \text{ to } 60^{\circ}\text{C}$  (-4 to  $140^{\circ}\text{F}$ ); 20 W at  $60^{\circ}\text{C}$  ( $140^{\circ}\text{F}$ ) and above

### SF-AC-48VDC-120W

External DIN rail AC to 48 VDC power supply, 120 W, -20 to  $60^{\circ}$ C (-4 to  $140^{\circ}$ F); 60 W at  $65^{\circ}$ C ( $149^{\circ}$ F) and above

### SF-24VDC-48VDC-240W

24 VDC to 48 VDC power supply, 240 W, -40 to 50°C (-40 to  $122^{\circ}$ F); 120 W at 65°C ( $149^{\circ}$ F) and above

### SF-AC-12VDC-40W

AC to 12 VDC power supply, 40 W, -20 to  $60^{\circ}$ C (-4 to  $140^{\circ}$ F); 20 W at  $65^{\circ}$ C ( $149^{\circ}$ F) and above

## **International Headquarters**

24 Raoul Wallenberg St., Tel Aviv 6971923, Israel Tel 972-3-6458181 | Fax 972-3-7604732 Email market@rad.com

### **Antennas**

### SF-ANT3G-2M

Outdoor antenna for SecFlow 3G cellular modem, 2m connecting cable, 2.2 dBi, 824-894 MHz/900 MHz/1800 MHz/1900 MHz

### SF-ANT3G-5M

Outdoor antenna for SecFlow 3G cellular modem, 5m connecting cable, 2.2 dBi, 824-894 MHz/900 MHz/1800 MHz / 1900 MHz

### SF-ANT4G-2M

Outdoor antenna for SecFlow 4G cellular modem, 2m connecting cable, 3 dBi, 699-960 MHz/1710-2170 MHz/2500-2690 MHz

### SF-ANT4G-5M

Outdoor antenna for SecFlow 4G cellular modem, 5m connecting cable, 3 dBi, 699-960 MHz/1710-2170 MHz/2500-2690 MHz

### SF-ANT-LTE700-7DBI-MGNT

Outdoor magnetic base antenna for SecFlow-1v LTE options and for LoRaWAN 868 MHz, 7 dBi

#### Software

### SF-1V-SW/SCDFW/IDS\*

Software package for SecFlow-1v, SCADA firewall for IEC-104, DNP3-TCP, MODBUS-TCP, Tap mode for IDS

### SF-1V-SW/SCDFW/IDSIPS\*

Software package for SecFlow-1v, SCADA firewall for IEC-104, DNP3-TCP, MODBUS-TCP, Inline for IDS and/or IPS

### **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



## www.rad.com

<sup>\*</sup> This ordering option is part of RAD's roadmap. Regarding availability, follow updates of official rollout and release announcements.