



Introducing the SecFlow-1v-LoRa Secure IIoT Gateway with LoRa and Edge Computing!

Ruggedized, multiservice and compact – meet RAD's new SecFlow-1v-LoRa!

SecFlow-1v-LoRa is best-in-class, secure industrial IoT gateway with Edge computing that leverages license-free LoRa LPWAN technology for water and power utilities, smart cities, transportation and many other verticals. It collects data from LoRa sensors and meters and securely delivers it to cloud servers via fiber, Ethernet, 3G/ LTE cellular or unlicensed microwave radio.



Your Network's Edge®

SecFlow-1v-LoRa

Ruggedized Multiservice Gateway for LoRa networks

Specifications

LoRaWAN MODEM

433MHz/868MHz/915MHz bands
SX1301 base band processor
emulating 49 x LoRa demodulators, 10 parallel demodulation paths
8 uplinks channel and 1 downlink channel
Maximum range: Urban: 2~4km / Suburb: 5~10km, Open area: 15km

LoRaWAN SERVER (optional)

As per specification v1.0.03

ETHERNET INTERFACES

GbE Port: 4 x 10/100/1G BASE-T, RJ-45 connector

SFP: 1 x 100/1000FX

POE: 4 GbE copper with up to 2x30W or 4x15W PoE (optional), 1x60W. **Max**

SERIAL INTERFACES

2 x RS-232/RS485
Ports Isolated/non-isolated

CELLULAR MODEM

Dual SIM cellular modem for HSPA+/EVDO or LTE networks
FOTA (Firmware upgrade Over the Air)

NETWORKING

L3 IPsec VPN
SCADA gateway for IEC101/104, Modbus RTU/TCP and DNP3

ROUTER

Static routing, OSPFv2, BGP, VRF, IPv4, NAT, NAT-T

MANAGEMENT

Control Port
Interface: RS-232

Management Options

CLI with password-protected access
Web-based interface using HTTP or HTTPS
USB 2.0 host for software upload

Tools

TFTP/SFTP
Multiuser TACACS+

TIMING

Local time setting
SNTP

SECURITY

Stateful Firewall

IPsec

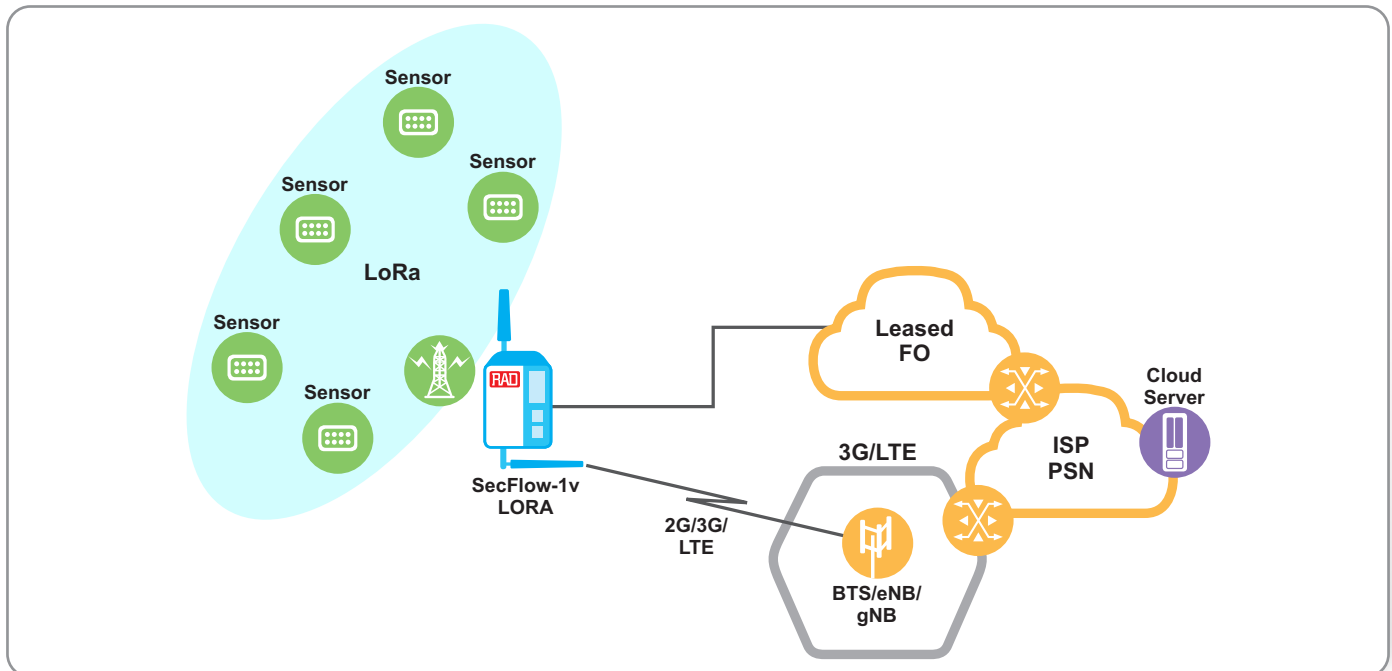
AES128 and AES256 GCM encryption
OpenVPN client
PKI with X.509 certification
IKEv1, IKEv2, SHA2

OPERATING TEMPERATURE

-40 to 65C (-40 to 149F)

POWER SUPPLY

Dual feed DC



Your Network's Edge®

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Watch [video](#) for Edge Computing use cases