Introducing the SecFlow-1v-LoRa
Secure IIoT Gateway with LoRaWAN 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.

LoRaWAN eliminates wiring, is easy to deploy and does not need any licenses. It reduces the energy consumption of connected objects while giving them more than 10 years of autonomy by exchanging small data at low speed.

RAD

Your Network's Edge®

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

Tools

TFTP/SFTP
Multiuser TACACS+

TIMING

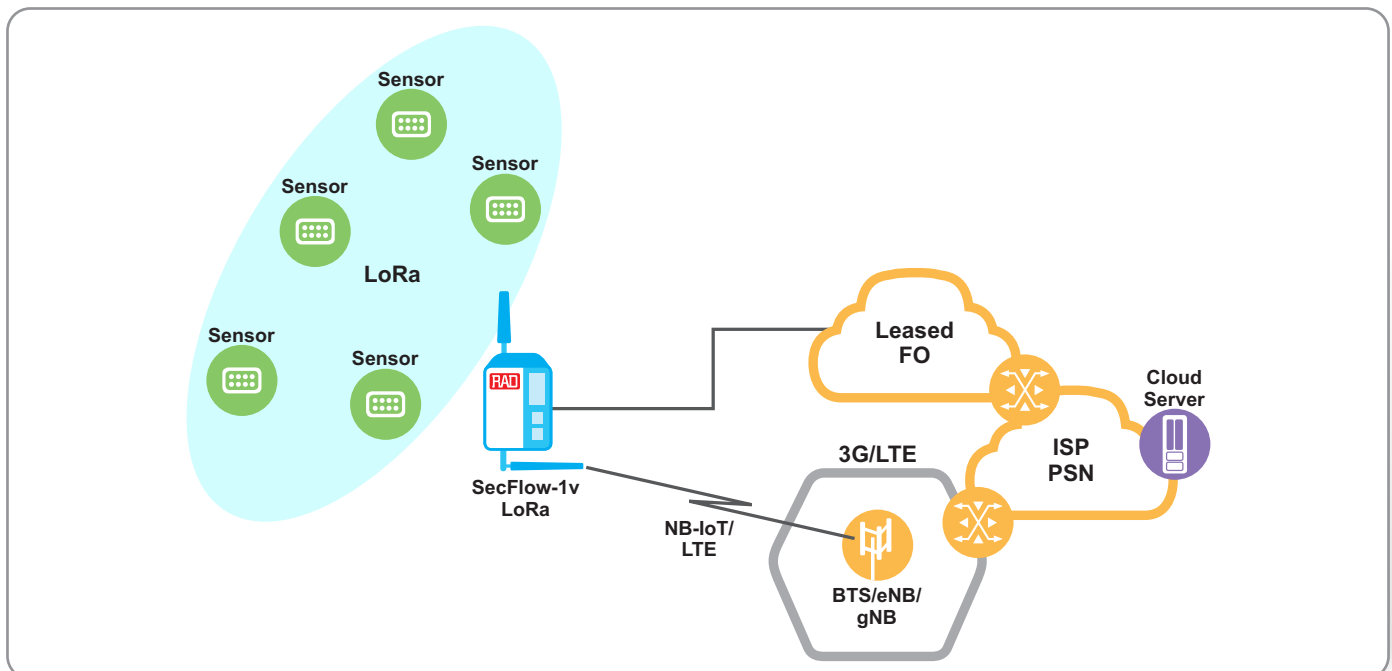Local time setting
SNTP

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

Watch **video** for Edge Computing use cases