# SOFREL FR4000

## FRONT-END PROCESSOR FOR NETWORKING SOFREL TELEMETRY DEVICES

SOFREL FR4000 is an effective solution for opening up telemetry networks to supervisory control software and central systems developed by operators.

As the central unit, FR4000 centralizes all SOFREL telemetry equipment communications and transmits the data via an Ethernet link (LACBUS-PC protocol) to operators' SCADA systems.

This data exchange solution is suitable for both private APN networks that provide a 100% secure barrier preventing intrusion into the telemetry network and public APN networks alike. In the case of the latter, SG4000 software will also be required to secure network data transmissions over the public APN.







### PRODUCT advantages

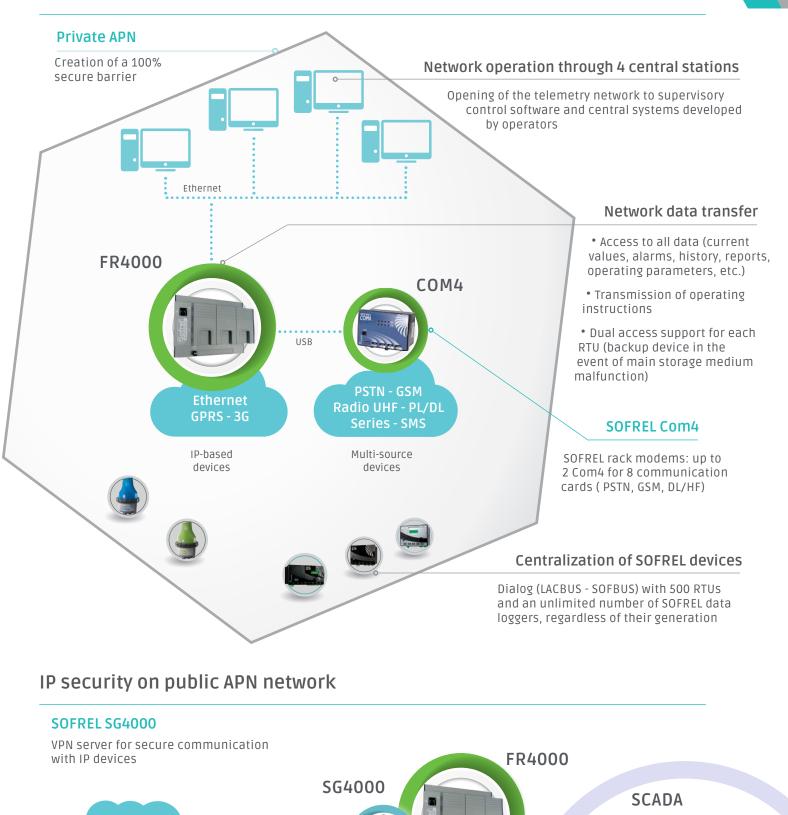
- Secure sharing of devices between a private APN and another network via a secure VPN tunnel
- Interaction with SG4000 for operation on Public APNs
- Centralization of 500 Remote Terminal Units and an unlimited number of data loggers
- Automatic switchover to a backup medium in order to ensure proper data transmission in case of communication failure with a device
- Easy switchover from multi-source networks to IP

#### **BENEFITS**

- Network operation via 4 central SCADA stations
- Distribution and sharing of device data with third party networks
- Secured exchanges



#### IP and multi-source centralization and communication

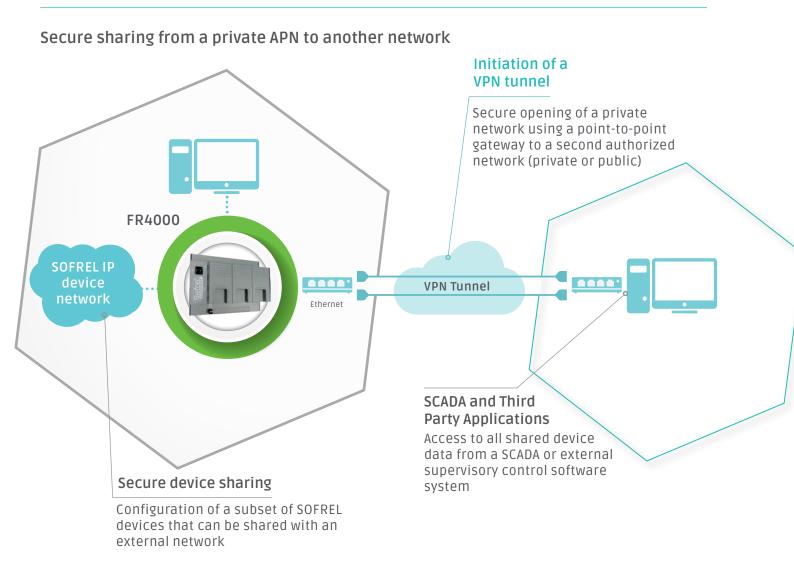


ETHERNET

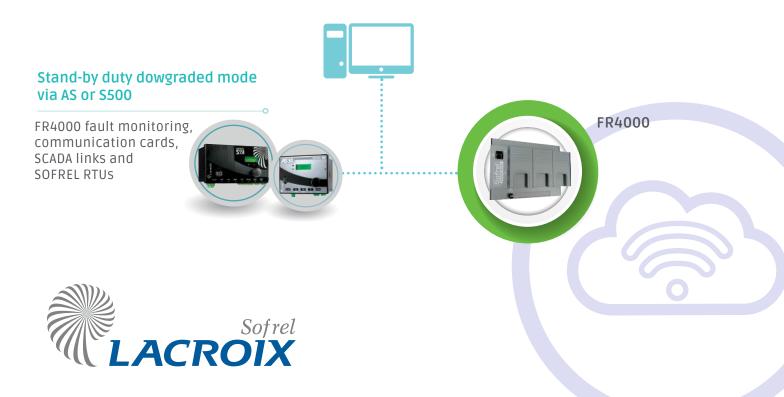


Network (VPN)

GPRS - 3G



#### Monitoring and stand-by duty downgraded mode by «Watchdog» equipment



## **Operational specifications**

FEATURES	CAPACITIES
Devices	500 remote telemetry units
	Unlimited number of data loggers
Ethernet interface	4 LACBUS-PC servers for exchanges with 4 supervisory control systems
	1 MODBUS-TCP server for "reporting" devices
	4 clients for queries from RTUs
	40 servers for receiving spontaneous device transmissions
Means of communication with devices	Maximum 8 cards from the following:
	- PSTN (RTC communications) - GSM (GSM-Data and GSM-SMS communications) - DL/HF (Motorola Radio Communications or Private Line) - RS232 (for connection of an external radio modem)
Configuration models	50 communication models with RTUs 10 models for data relay from RTUs to SCADA 1 model for data relay from data loggers to SCADA



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