Overview

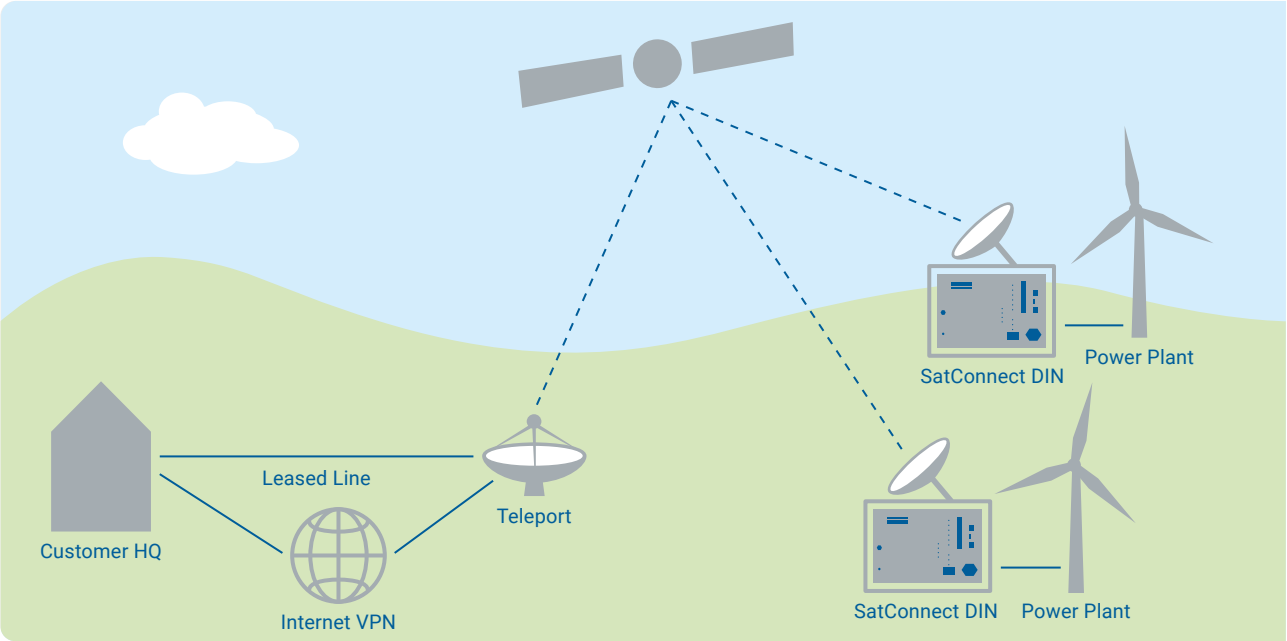
Photo: Andreas Zierhut

In response of the increased requirements for security and stability, EuroSkyPark took the challenge to develop a new, improved satellite router. Based on our experience, but also considering new features and possibilities, the new SatConnect models integrate all necessary components for a stable, yet highly configurable system.

As its predecessor, the SatConnect is used for establishing bidirectional satellite links for SCADA communication. Locations like wind or solar power plants, substations, gas pipelines or any other technical facilities can be monitored and controlled remotely. The system consists of two parts, the Indoor and the Outdoor unit. The outdoor unit consists of the satellite dish (default diameter 70 cm, or 120 cm) and the attached bidirectional LNB (2W or 3W), connected to the SatConnect via coaxial cables. In the newest Version for 2023 the SatConnect also support LTE WAN connections. The SatConnect R1 supports IEC 60870-5-104 connections (TCP/IP) and optionally IEC 60870-5-101 (serial RS232) connections, widely used in SCADA environments.

The router has been designed for high flexibility and offers a large variety of configuration options. Virtual Private Networking according to state-of-the-art technology and standards is possible.

The enhanced monitoring and diagnostic capabilities facilitate an efficient troubleshooting within the highly complex network structures of our customers. A new watchdog component, specially redesigned for all our SatConnect models facilitates event-based automatic rebooting of the SatConnect and/or external devices. An active overheating protection (temperature controlled fan) ensures faultless operation even in harsh environments.

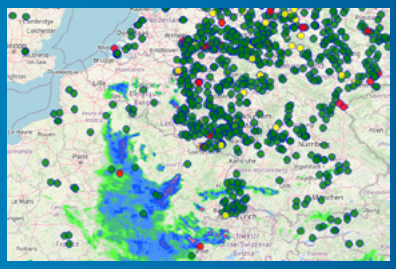


Monitoring | Operating | Controlling

The typical application is the integration of remote sites into the corporate network.

Clear status of the satellite terminals

Accurate details of data transfer rates



Live weather data monitoring

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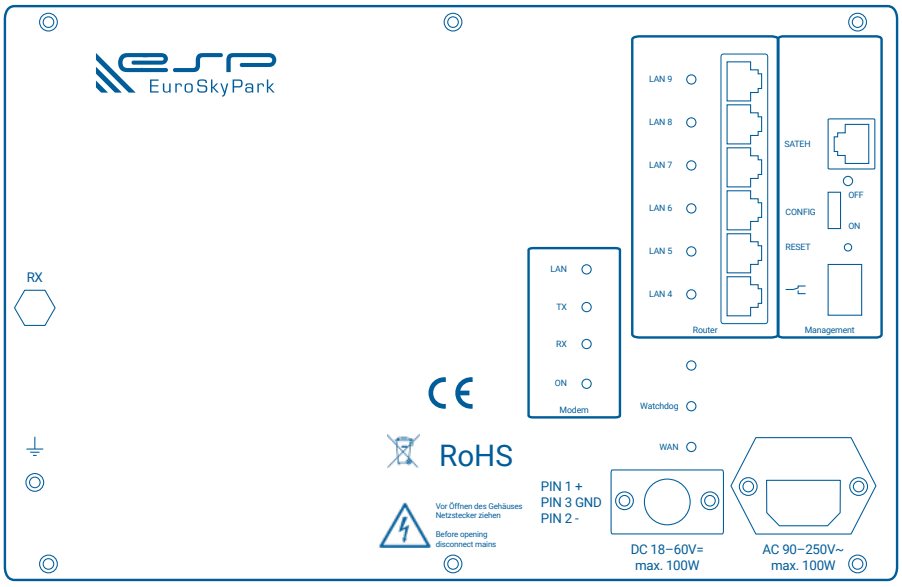

Interfaces Front

- 4 Modem LEDs
- SAT-ETH port
- Configuration Switch
- Reset button
- Potential free watchdog alarm output (1–3: NC and 1–4 NO)

Technical Data

Power supply

- Redundant AC/DC
- 230 V AC 50/60 Hz
- 18–60 V DC, Power max. 100 W

Ethernet Interfaces

- 6 RJ-45 ethernet ports, LAN4–LAN9
- any port configurable as additional WAN port for backup connection, default: LAN9

Dimensions and Environmental

- DIN rail 330 x 210 x 110 mm
- Weight 4,2 kg
- Operating Range 0°C–50°C, storage temperature -20°C–65°C
- Humidity range <80 %, non-condensing

Note: In normal operation mode (default, LAN ports active), the Config Switch is “Off”. There are no other user serviceable parts.

The configuration shall be done only by ESP or by qualified personnel with authorization from ESP, on site or remotely.