

Overview



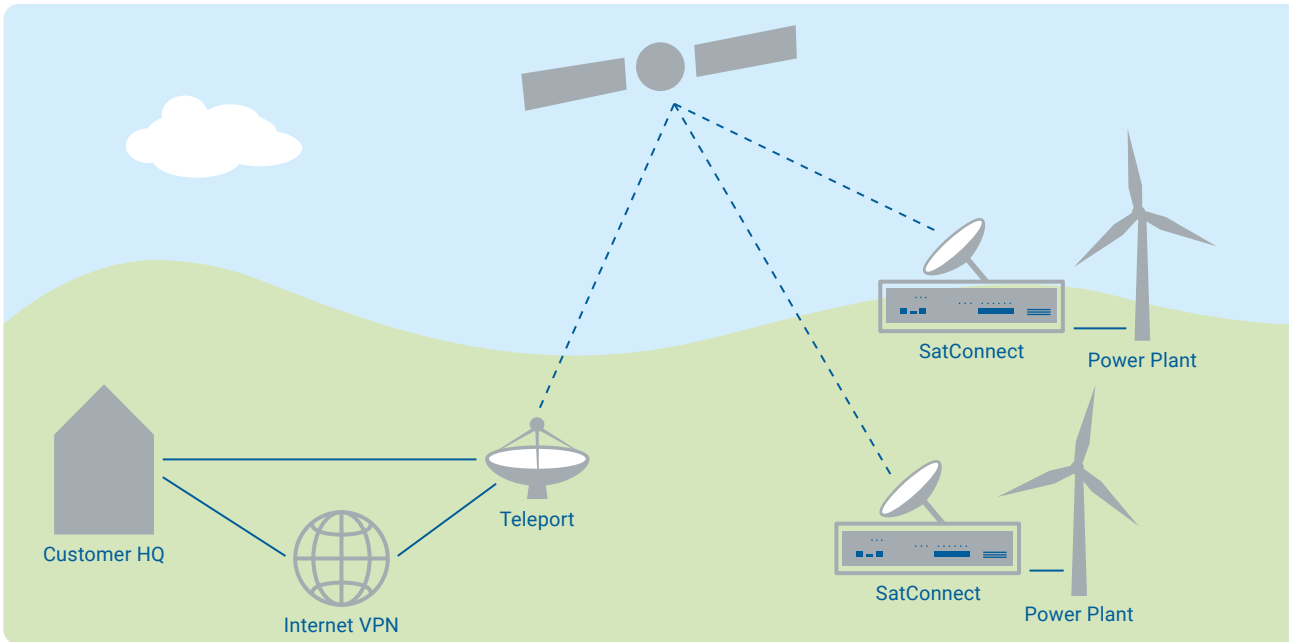
Photo: Andreas Zierhut

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 with its predecessor, the SatConnect R3 is used for establishing bidirectional satellite links for SCADA communication. Locations such as wind or solar power plants, substations, gas pipelines, or other technical facilities can be monitored and controlled remotely. The system consists of two parts, the indoor and the outdoor unit. The outdoor unit comprises the satellite dish (default diameter between 74 cm and 120 cm) and the attached bidirectional LNB (2W), connected to the SatConnect via coaxial cables. In the newest version for 2024, the SatConnect also supports LTE WAN connections.

The SatConnect R3 supports IEC 60870-5-104 connections (TCP/IP) and offers high flexibility with a

wide range of configuration options. It can now handle bandwidths of up to 200 Mbps and works in conjunction with the Connect450 when needed. Additionally, many detailed improvements have been made to further enhance user experience and performance. Virtual Private Networking according to the latest technology and standards is possible. The enhanced monitoring and diagnostic capabilities facilitate 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 environment.



Monitoring | Operating | Controlling

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

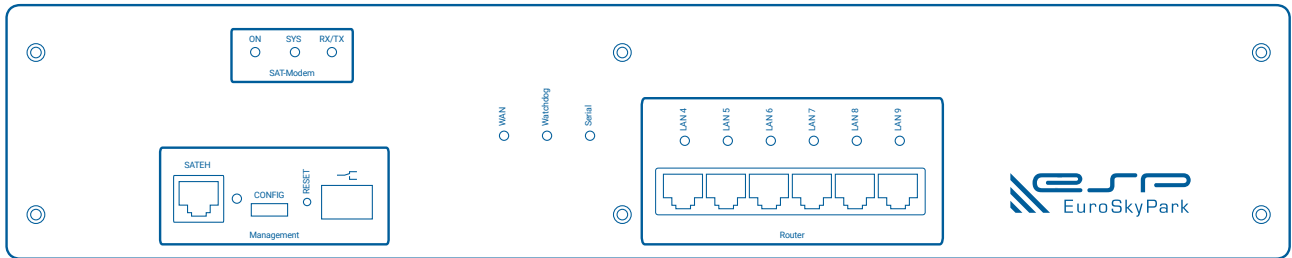
ID	DOWN	UP	LAST_UPDATE	STATUS	COUNTRY	IP	Latency	COMMENTS
10.00	12.8	2024-01-10 10:00:00	OK	DE	090.000.000.000			
11.10	10.7	2024-01-10 10:00:00	OK	DE	090.000.000.000			
12.34	10.1	2024-01-10 10:00:00	OK	DE	090.000.000.000			
13.56	10	2024-01-10 10:00:00	OK	DE	090.000.000.000			2024-01-10 10:00:00
14.4	9.9	2024-01-10 10:00:00	OK	DE	090.000.000.000			
15.66	10.1	2024-01-10 10:00:00	OK	DE	090.000.000.000			
16.10	10.4	2024-01-10 10:00:00	OK	DE	090.000.000.000			
17.33	8.8	2024-01-10 10:00:00	OK	DE	090.000.000.000			
18.20	10.9	2024-01-10 10:00:00	OK	DE	090.000.000.000			
19.31	9.6	2024-01-10 10:00:00	OK	DE	090.000.000.000			
20.57	8.9	2024-01-10 10:00:00	OK	DE	090.000.000.000			
21.00	10.4	2024-01-10 10:00:00	OK	DE	090.000.000.000			
22.30	10.1	2024-01-10 10:00:00	OK	DE	090.000.000.000			
23.10	10.8	2024-01-10 10:00:00	OK	DE	090.000.000.000			
24.24	10.3	2024-01-10 10:00:00	OK	DE	090.000.000.000			
25.07	9	2024-01-10 10:00:00	OK	DE	090.000.000.000			

Clear status of the satellite terminals

Terminal:

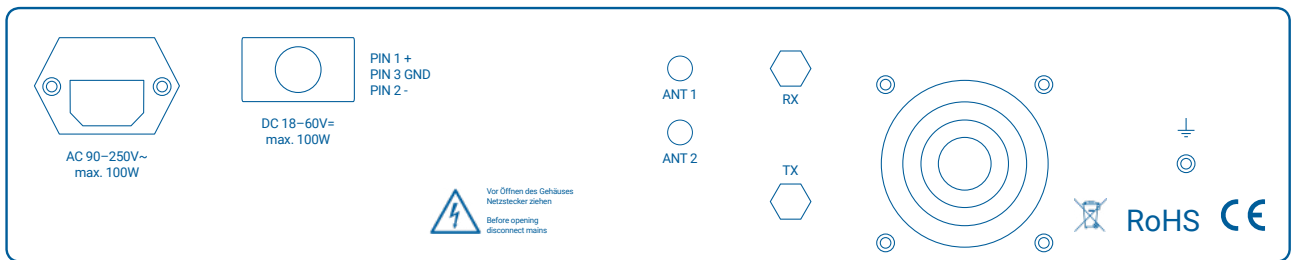
Accurate details of data transfer rates

Live weather data monitoring



Interfaces Front

- 3 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
- 90 – 250 V 50/60 Hz
- 18–60 V DC, Power max. 100 W

Dimensions and Environmental

- 19" rack mount (2 HU) 482 x 290 x 90 mm
- Weight 5,8 kg
- Operating Range 0°C–50°C, storage temperature -20°C–65°C
- Humidity range <80 %, non-condensing

Ethernet Interfaces

- 6 RJ-45 ethernet ports, LAN4–LAN9
- any port configurable as additional WAN port

WAN Interfaces

- RX/TX Connection for satellite antenna
- LTE SMA Connection for LTE antenna/450 MHz

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.