

DATA SHEET – End to end over satellite

SatConnect Offshore & 5G mobile private network over satellite (MPN)



Communication solution for SCADA Smart Grid, metering and 5G over satellite

Networks of utilities – electricity, oil or gas need a robust communications infrastructure for monitoring and controlling the flow of energy in areas with no or bad IT infrastructure. In this case the first choice for communication is a satellite solution to support the transmission from SCADA applications. This solution is an economically equivalent alternative. The most important factor is the use of one system for all required applications. This includes 101 and 104 that are required for SCADA applications. ESP supports every type of connection with the SatConnect platform.

What is 5G satellite backhaul?

The backhaul connects the provider's core network to the edges of the network, i.e. the cell towers. In the case of offshore systems, the connection via cable connections is often restricted. To counteract this, EuroSkyPark relies on satellite technology with the appropriate bandwidths for the connection to the telecommunications provider.

Overview – 5G satellite backhaul

SatConnect is a satellite-based, bi-directional communication system for SCADA applications as remote control stations such as wind or solar plants, gas pipelines or for other difficult to reach locations that are accessed and controlled via remote access. The system consists of two units, the indoor unit and the outdoor unit. EuroSkyPark combines its satellite system with a powerful 5G base station. This combination creates an absolutely self-sufficient solution that can even be installed offshore and promises a self-sufficient communication solution.

Availability

SatConnect is available in Europe, Africa, Asia and USA.

Technology (SAT)

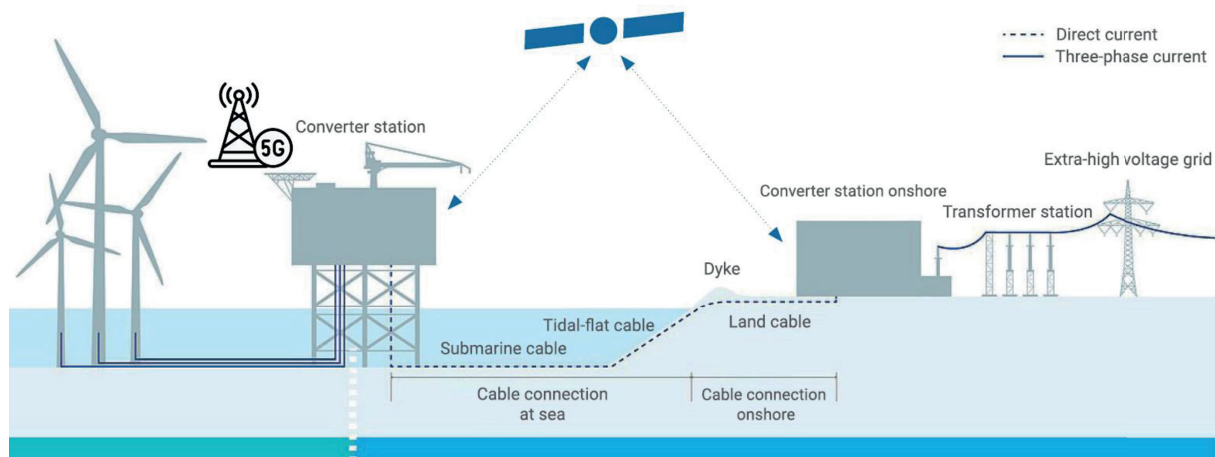
Outdoor Unit

The outdoor unit consists of satellite dishes (70 –150 cm) and mounted, bi-directional LNB. This device is connected with the TX and RX lines of the electronics of the integrated indoor unit. The standard transmission power of the uplink run amounts to 500 mW and 4 watts (Depending on the required bandwidth). The power for the outdoor unit will be supplied via coaxial cable.

Indoor Router

- DVB-S/S2 compatible Terminal
- Supports TCP/IP (IEC 60870-5-104) and serial (IEC 60870-5-101)
- up to 6 Port Ethernet (104) and 1 Port serial (101), can use similar
- Serial Interface RS.232 (V.24), RS.422 (V.11) or RS.485 (optional)
- 19” Version 2HU and DIN Rail Version
- Power Connectivity 90...250 V AC or 18...60 V DC
- VPN on IP-Site
- Encryption over VPN (expl. IPSEC)
- SCADA Bandwidth 6Mbit/s uplink, 6 Mbit/s downlink
- Extended Bandwidth 20Mbit uplink, up to 70Mbit downlink
- Monitoring and diagnostic via Web Browser possible

Typical Application



Contact
Headquarters
Heinrich-Barth Straße 30
D-66115 Saarbrücken
Germany
+49 681 / 97 61 - 72 64

UK
+44 207 / 1 83 13 26

euroskypark.com
info@euroskypark.com