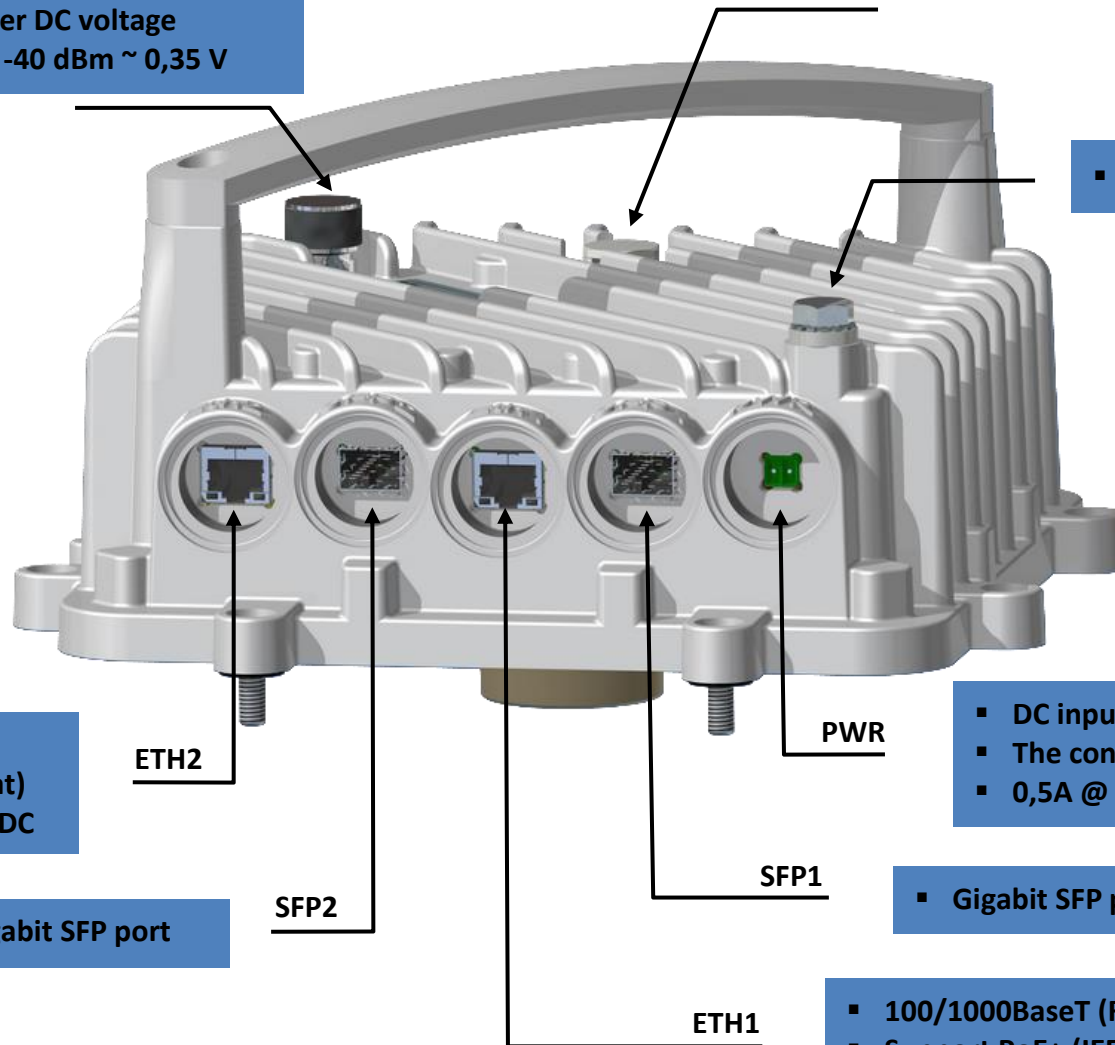


# Microwave link BT series – Quick Start Manual

- Connection for DC voltmeter (N-connector)
- RSSI measurement
- stronger signal → lower DC voltage
- e.g. -80 dBm ~ 2,45 V, -40 dBm ~ 0,35 V

- Pressure compensation valve

- FOD unit grounding



- 1000BaseT (RJ-45)
- Support PoE+ (IEEE 802.3at)
- PoE voltage input 40-57V DC

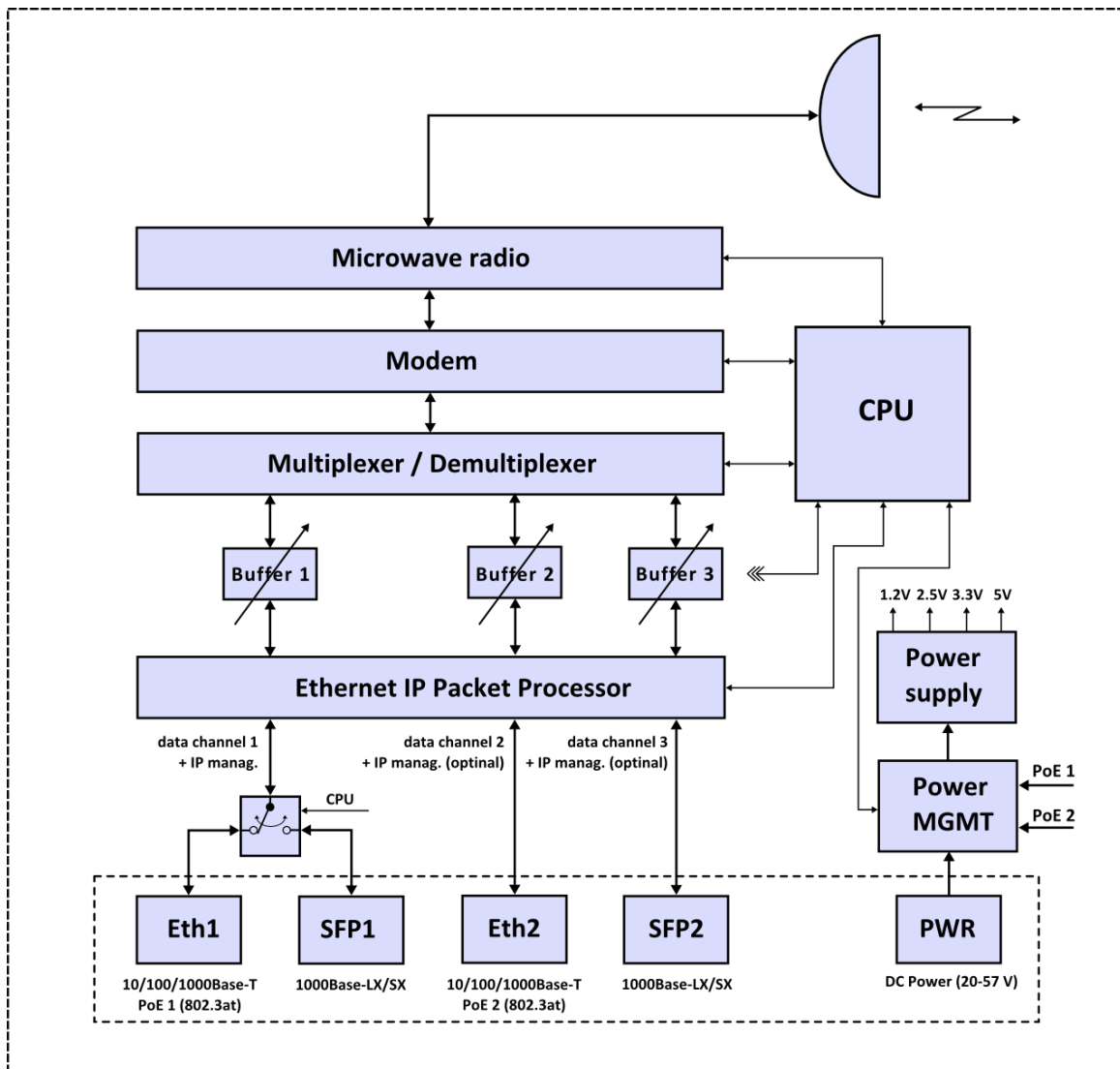
- Gigabit SFP port

- DC input 20-57V
- The connection is not polarity-sensitive
- 0,5A @ 48V

- Gigabit SFP port

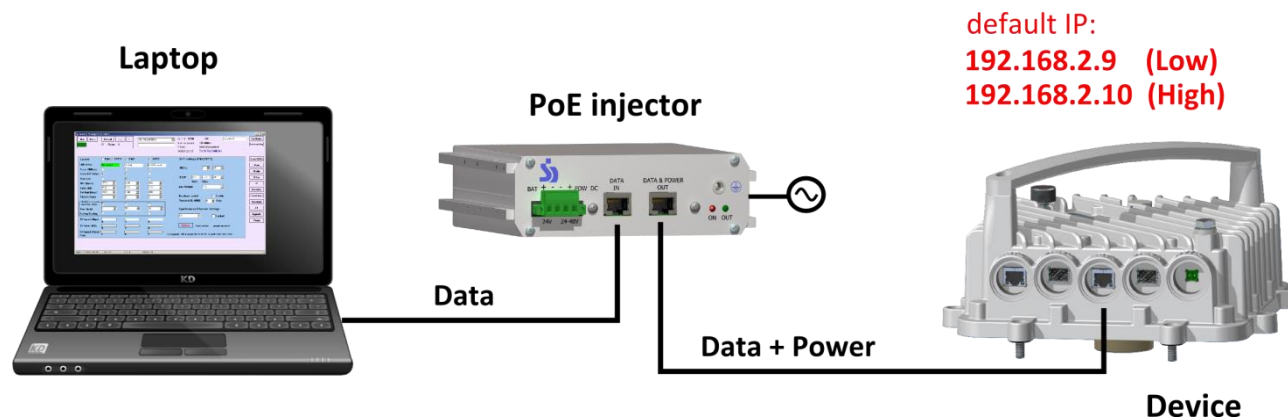
- 100/1000BaseT (RJ-45)
- Support PoE+ (IEEE 802.3at)
- PoE voltage input 40-57V DC

# Block diagram



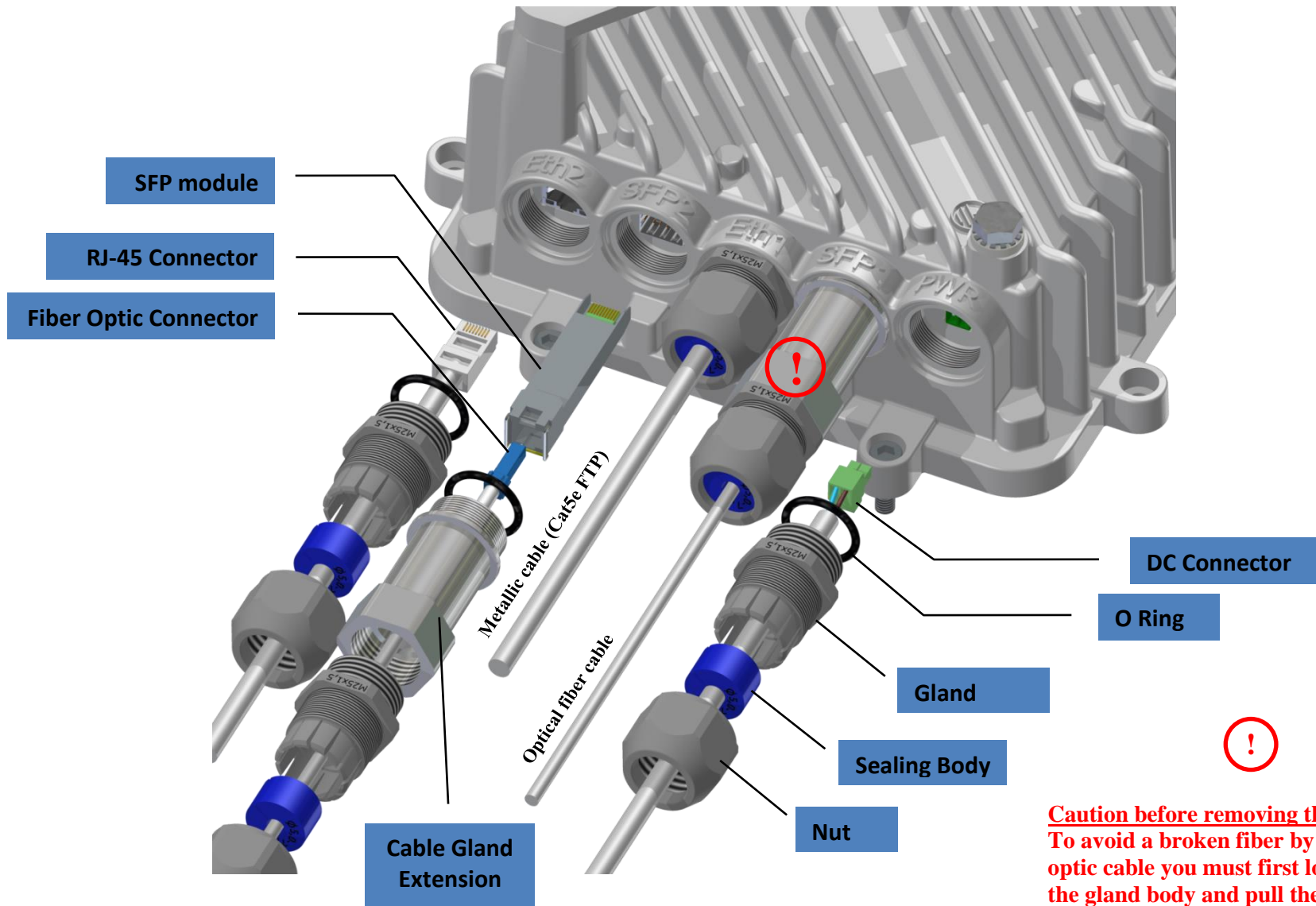
## How to connect to the device

- Connect the device to a power source. The device can be powered separately by using the power port (20-57 VDC) or over the Ethernet 802.3at (40-57 VDC). These connections are not polarity sensitive.
- Connect the device to a computer by Ethernet cable. Use **ETH1 / SFP1** to access to the device.
- The default IP address of the device is **192.168.2.9** (TX low freq.) and **192.168.2.10** (TX high freq).
- To change IP address open the Summit Management System (sms.exe) and click the „**ScanOdus**“. Within few a seconds, the device will appear in the table. Select your device and click „**Set IP**“ to set new IP address (Subnet mask and Default gateway are not filled).
- The IP address of your computer must be in the same subnet as the device in order to connect to it.
- Continue with the configuration process according to the [user manual SMS](#).



# Installing the connectors on FOD unit

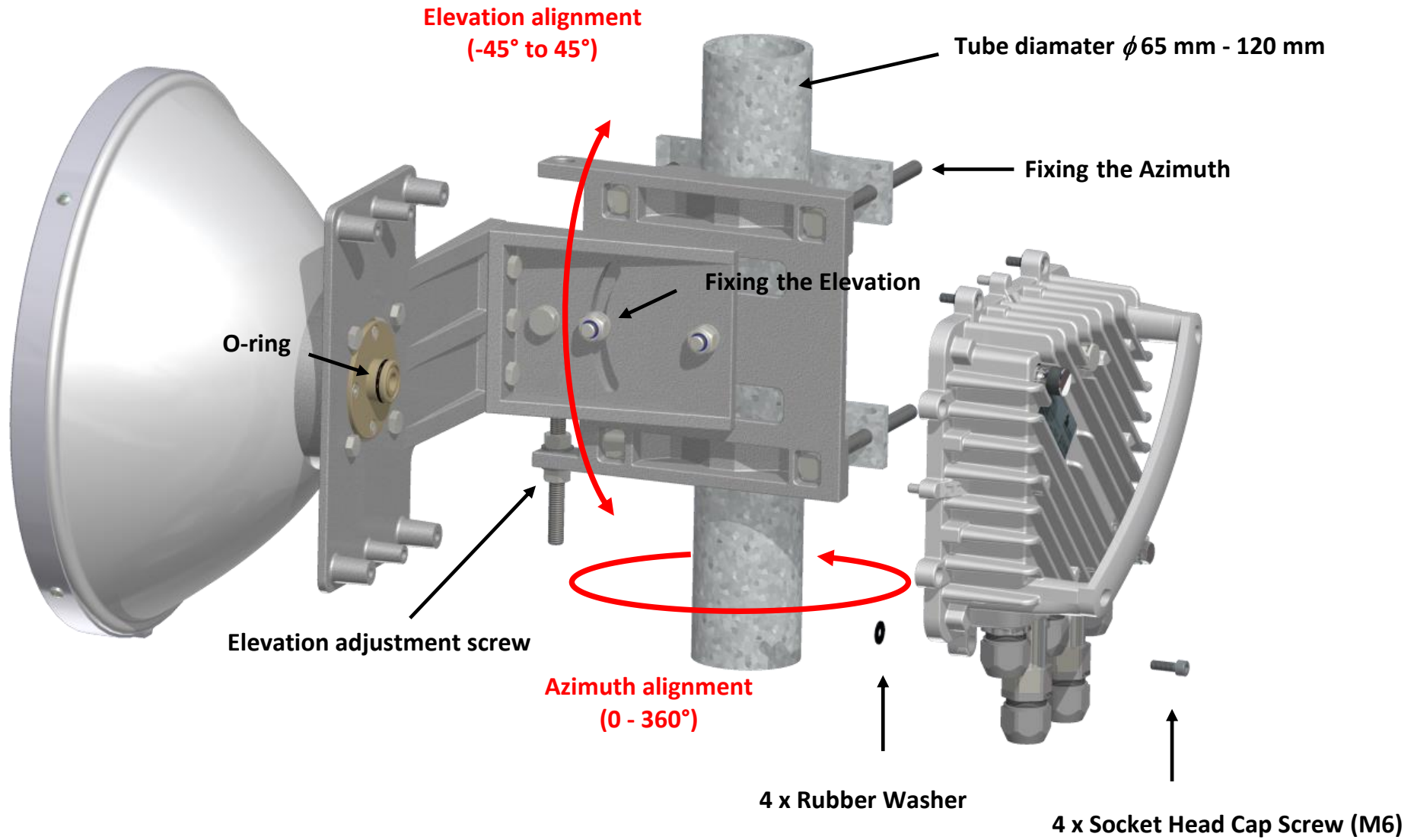
Installing tools: Spanner (19, 29 mm)



**Caution before removing the cable gland:**  
To avoid a broken fiber by pulling on the optic cable you must first loosen the nut on the gland body and pull the sealing body.

# Installing the FOD unit on the antenna

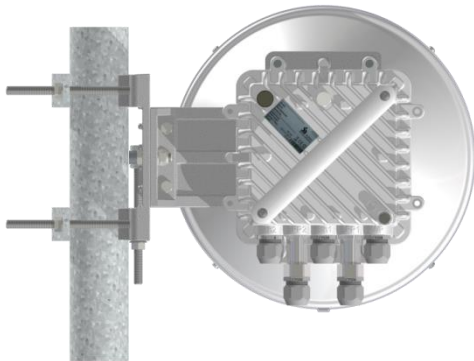
Installing tools: Spanner (13, 17 mm), Allen (5 mm)



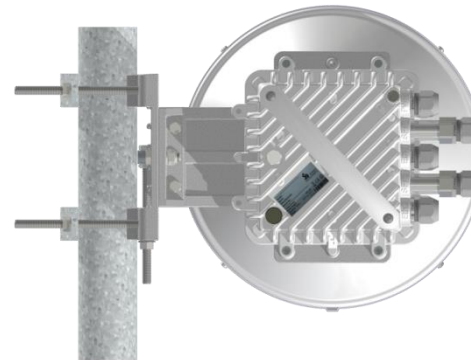
# Microwave link polarization

The polarization is defined by turning FOD unit through 90°

Vertical polarization



Horizontal polarization

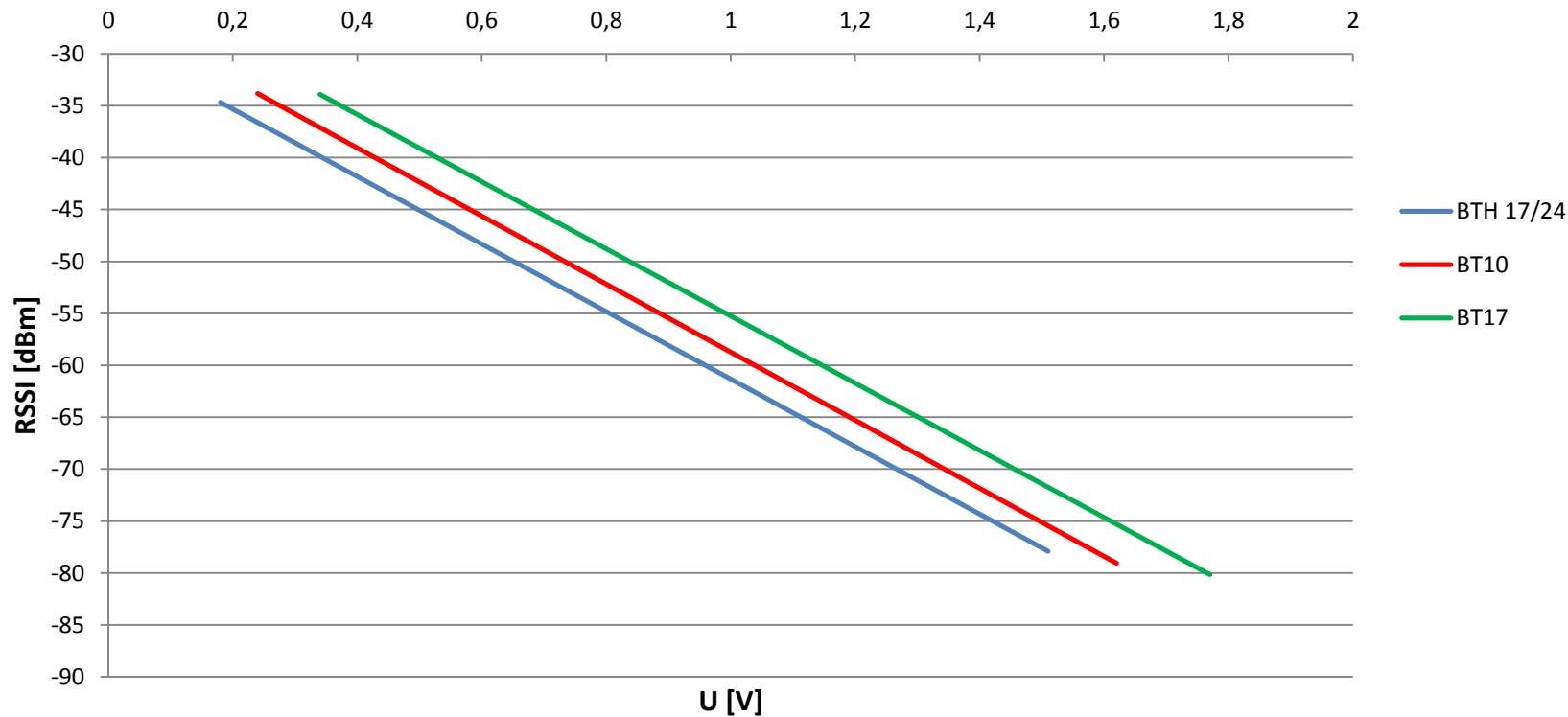


Link polarization		BTH 17/24	BTD 10	BT 17	BT 24	BT 80
unit 1	unit 2					
Vertical	Vertical	✓	✓	✗	✗	✓
Horizontal	Horizontal	✓	✓	✗	✗	✓
Vertical	Horizontal	✗	✗	✓	✓	✗
Horizontal	Vertical	✗	✗	✓	✓	✗

## RSSI calibration graph

The value of received level (RSSI) can be determined by direct reading in the Summit Management System (SMS) or by calculation using the calibration graph for RSSI. The RSSI voltage can be measured at the N connector. Connect a voltmeter with the range 2V DC via N connectors to the radio unit and adjust antennas to the lowest indicated voltage.

The RSSI Calibration graph



# Application options

