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

ETH2

PWR

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

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

SFP1

- Gigabit SFP port

SFP2

- Gigabit SFP port

ETH1

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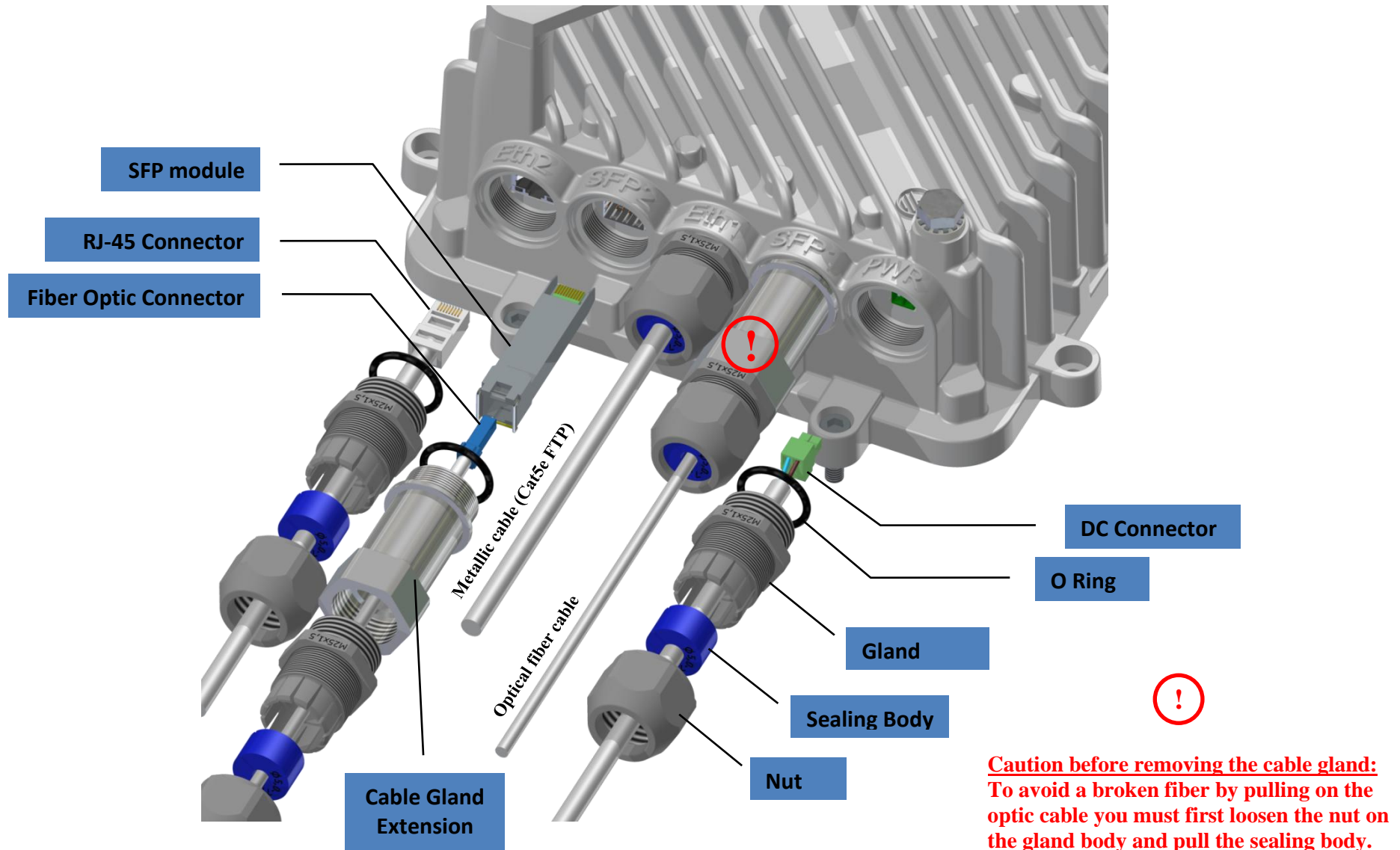- PoE voltage input 40-57V DC

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.
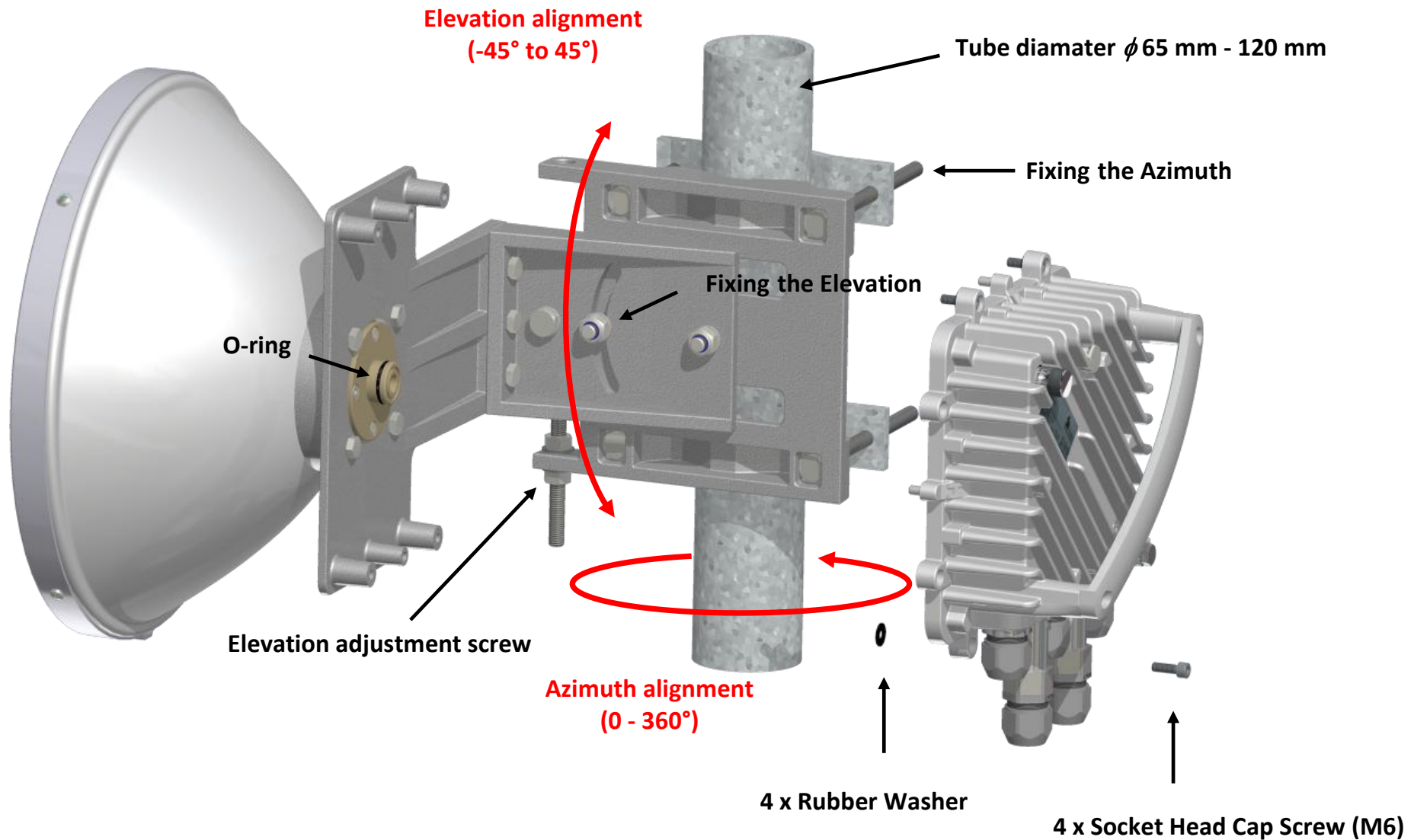- Continue with the configuration process according to the user manual SMS.

Laptop

PoE injector

default IP:
192.168.2.9   (Low)
192.168.2.10 (High)

Data

Data + Power

Device

Installing the connectors on FOD unit

Installing tools: Spanner (19, 29 mm)

SFP module

RJ-45 Connector

Fiber Optic Connector

Metallic cable (Cat5e FTP)

Optical fiber cable

Cable Gland Extension

Nut

Sealing Body

Gland

O Ring

DC Connector

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)

Elevation alignment (-45° to 45°)

Tube diamater ϕ 65 mm - 120 mm

Fixing the Azimuth

Fixing the Elevation

O-ring

Elevation adjustment screw

Azimuth alignment (0 - 360°)

4 x Rubber Washer

4 x Socket Head Cap Screw (M6)
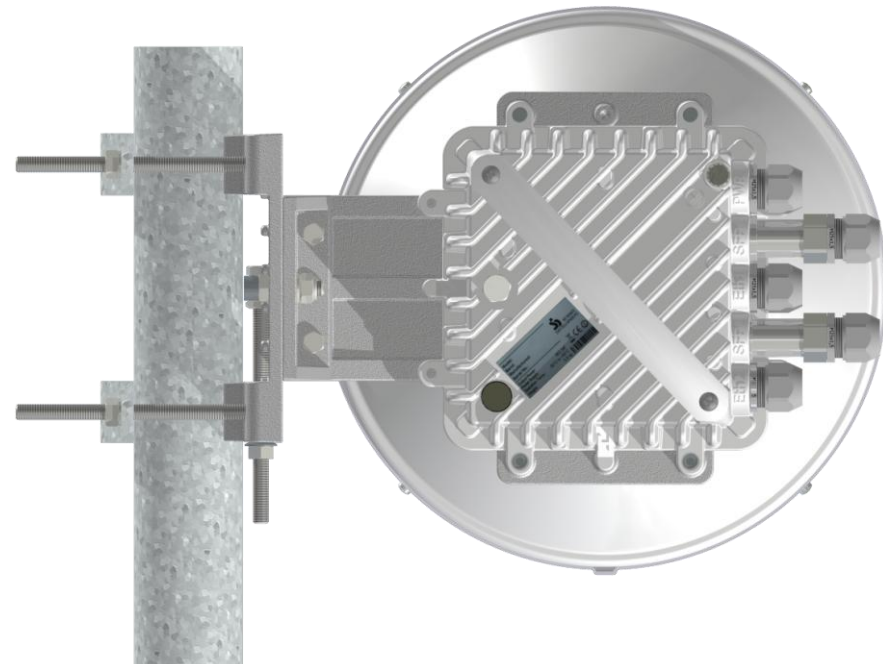
Microwave link polarization

The polarization is defined by turning FOD unit through 90°

Vertical polarization

Horizontal polarization

Application diagram

Full Outdoor Unit

Full Outdoor Unit

wireless connection

ETH2 — 1Gbit METALLIC PORT + PoE+
SFP2 — 1Gbit OPTICAL PORT
ETH1 — 1Gbit METALLIC PORT + PoE+
SFP1 — 1Gbit OPTICAL PORT
PWR — DC INPUT 20 - 57V

DATA 2
DATA 1 + IP MANAGEMENT

SUMMIT MANAGEMENT SYSTEM

DATA 3 + PoE (Power Over Ethernet)

DATA 3

BAT + – – + POW DC
DATA IN
DATA & POWER OUT
ON OUT
24V 24-48V

24V BATTERY

DC POWER SUPPLY 24-48V

Available in 230V AC version

BATTERY   POW DC

DATA 3 + PoE
DATA 2
DATA 1 + PoE + IP MANAGEMENT
DC POWER SUPPLY 20-57V

SUMMIT MANAGEMENT SYSTEM

BATTERY   POW DC