

Um Models Deployment



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1. Unpack the equipment.
2. Check items integrity.
3. Initial configuration is required for link establishment.
4. Prepare RF cables of the required length. For 5GHz devices, the recommended maximum RF cable length is 1meter.
5. Install and seal the connectors on the RF cables.
6. Important: Horizontal and Vertical polarization should match each other on both sides!

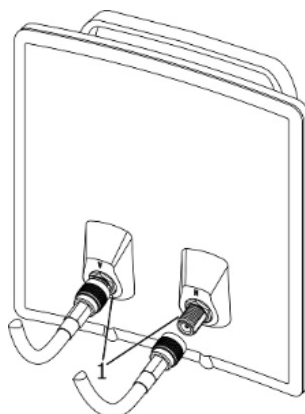


Figure - Model Front Panel

7. Determine the FTP cable length that is used to connect IDU and ODU. The total cable length between LAN (behind IDU) and ODU should not be longer than 100 meters. Service cable connecting IDU and ODU should be FTP Cat5e cable with the outside diameter value not more than 7mm.
8. If using SFP module, connect it to ODU, plug in the optical cable (the maximum length and type depend on the SFP module type) and seal the connector.
9. Install (crimp) regular RJ-45 connector for ODU on the FTP cable and seal it. Do not use the shielded RJ-45 connector on this end of the cable, as it should be attached only on the IDU end.
10. Lay the FTP cable (and the optical cable, if used) "from top to bottom" – from ODU to IDU.
11. Install (crimp and solder) shielded RJ-45 connector for IDU on the FTP cable.
12. Install ODU on the mounting bracket, connectors facing down, and tighten it.
13. Connect the ODU-IDU cable to the ODU.
14. Seal the ODU Ethernet connectors.
15. Once the antenna and antenna pole are installed they must be properly grounded: connected to the building lightning protection circuit. Antenna's position must be lower than the highest antenna pole point at least by 1 meter. If antenna is NOT DC-shortened (see antenna technical documentation), additional lightning protection unit must be used which are placed between ODU and antenna and are grounded to the antenna pole grounding circuit.
16. Connect the RF cables to the antenna ports, minding the polarization marks. Twist the connectors tightly.
17. Connect the RF cables to the ODU ports, after previously having touched the RF cables' connector case with ODU connector case.
18. Seal RF connectors from both sides (ODU and antenna).
19. Connect the FTP cable to IDU, after previously having touched IDU connector case with FTP cable connector case.



CAUTION

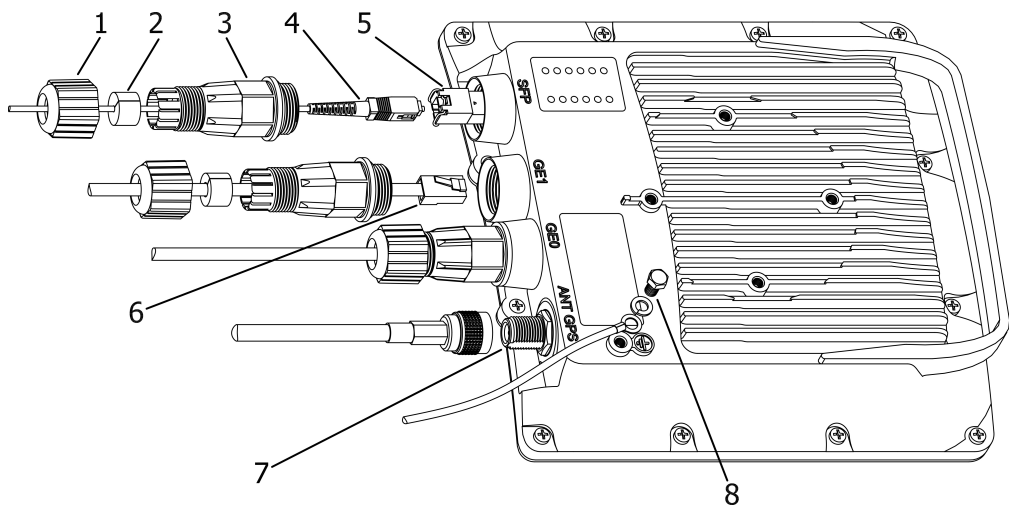
The power supply must not operate near a direct heat source, near water or in an environment with high humidity. The cables must be connected in such a way to prevent water flow to the power supply connectors.

20. Provide grounding for IDU.
21. Connect Ethernet cable to IDU.
22. Connect the IDU to power.
23. Connect to the Device using Telnet protocol.



NOTE

It is very important to mount the ODU connectors facing down.



Item	Name	Item	Name
1	Cable gland nut	5	SFP-module (not included in the delivery package)
2	Split sealing grommet	6	Standard RJ-45 connector
3	Cable gland threaded coupling	7	GPS antenna port (antenna and cable are not included in the delivery package)
4	Optical cable (from 2mm to 3mm)	8	Grounding bolt

Figure - Cable Assembly Scheme



CAUTION

Before supplying power to the Um models an external antenna or RF terminators with 50 Ohms resistance must be connected to **both** N-type connectors.

During laboratory testing, it is allowed to directly connect two devices with RF cables without antennas with the **mandatory** use of attenuators with attenuation of at least 40 dB for each polarization. Switching off/on the attenuators and RF cables should only be performed when the devices are in the off state.

In case the antenna, attenuator or terminator is connected to only one N-type connector **do not switch on** the device.

PLEASE NOTE THAT VIOLATION OF THE ABOVE REQUIREMENTS VOIDS THE WARRANTY.



NOTE

If there is no data transfer via one of the device ports (GE0 or GE1), the second port can be used as a backup for data transfer.

THE DEVICE IS OUT OF WARRANTY IN THIS CASE.



CAUTION

Please note that the pressure equalization system in Infinet devices is performed via gas exchange through a cable gland and Ethernet cable jacket with a dry room where the power supply is installed. In order to avoid ODU failure due to moisture entering the device, for example, during the pressure drop during the rain, the cable gland assembly requirements should be met and there are should be no cracks in the Ethernet cable jacket.

In addition, you should avoid the Ethernet cable bending near the ODU and pinching with clamps, that can bring to the pressure equalization system fault between the internal volume of the sealed ODU and the external environment during a sudden air temperature change. This may lead to the leakage and device failures.