Capricorn 4-Port Outdoor CPE Installation Guide

This installation guide is applicable to SkyEdge II-c Capricorn 4-Port Outdoor CPEs.
The P/N is determined by the power source as follows:
The measurements of this SkyEdge II-c Capricorn 4-Port Outdoor CPE model are 400x200x122 mm.

To install the SkyEdge II-c Capricorn Outdoor CPE, the installer must:

- Be trained in the installation of the SkyEdge II-c Capricorn Outdoor CPE.
- Have the CPE configuration parameters available.

Unpacking Guidelines

1. Unpack the Capricorn 4-Port Outdoor CPE unit and its accessories.
2. Compare with the supplied BOM and verify that nothing is missing.
3. Verify that nothing is damaged.

VSAT AC and DC power supplies are provided by Gilat. If the power to the VSAT is not through an AC or DC adaptor (e.g., batteries, solar panels, rectifier ETC), the power solution must be approved by the Gilat Technical Support.

Capricorn 4-Port Outdoor CPE General Information

WARNING

BEFORE INSTALLING THE UNIT, VERIFY THAT THE ANTENNA AND DC POWER CORD ARE GROUNDED SO AS TO PROVIDE PROTECTION AGAINST VOLTAGE SURGES AND STATIC CHARGES.
SECTION 810 OF THE US NATIONAL ELECTRICAL CODE, ANSI/NFPA 70, AND SECTION 54 OF THE CANADIAN ELECTRICAL CODE PROVIDE INFORMATION WITH REGARD TO PROPER GROUNDING OF THE MAST AND SUPPORTING STRUCTURE, GROUNDING OF THE LEAD-IN WIRE TO AN ANTENNA DISCHARGE UNIT, SIZE OF GROUNDING CONDUCTORS, LOCATION OF ANTENNA DISCHARGE UNIT, CONNECTION TO GROUNDING ELECTRODES AND REQUIREMENTS FOR THE GROUNDING ELECTRODE.

The Capricorn Outdoor CPE contains 4 LAN ports and can use the DC input 24V/48V only { Pin 1+, Pin 2-(RTN), Pin 4 Ground} (Figure 1). It is important to note that both the input and the output to the BUC can be either 24v or 48v, depending on the model.

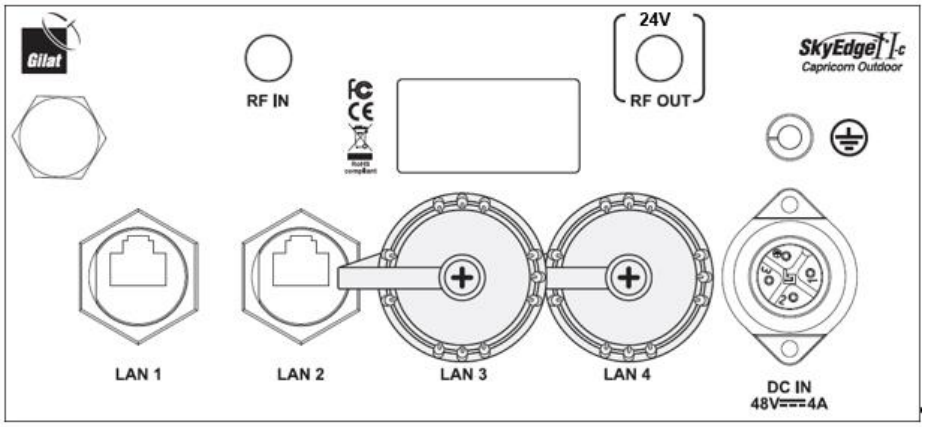

Figure 1: Front Panel

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Preparing for Installation

CAUTION

- THE CPE MUST BE GROUNDED PRIOR TO INSTALLATION BY ATTACHING ONE END OF THE GROUNDING CABLE TO THE GROUNDING STUD ON THE FRONT OF THE CPE, AND THE OTHER END TO THE SITE MAIN GROUND CONNECTION. 14AWG GROUNDING CABLE SHOULD BE USED.
- THE CPE MUST BE CONFIGURED PRIOR TO ATTACHING THE RF CABLES.
- THE POWER CABLE MUST BE DISCONNECTED FROM THE CPE PRIOR TO CONNECTING THE RF CABLES.

CAUTION

IN ORDER TO PREVENT DAMAGE TO THE RF CONNECTORS, SECURE THE CABLES TO A PERMANENT, STATIC OBJECT SUCH AS A TABLE OR PIPE, AT A DISTANCE OF 25-60 CM (10-25 IN.) FROM THE CPE, PRIOR TO CONNECTION.

Connecting RF Cable

Connect the two RF cables, from the LNB and ODU, to the **RF-IN** and **RF-OUT** connectors respectively, using a recommended torque of 13 lbft/in (1.5 N/m).
Use only the RF cables approved by Gilat.

Connecting Grounding Cable

Connect the grounding cable (GND) from the CPE to the approved site ground stud.

Connecting LAN Cable

Use only CAT-5 type cables to connect to the LAN port.
Use only the LAN cable approved by Gilat.

Connecting Power Cable

Use only the Power cable approved by Gilat.

WARNING

POWER CABLE ASSEMBLY AND CONNECTION SHOULD BE PERFORMED ONLY BY A CERTIFIED ELECTRICIAN.