



CPE Installation Note

This installation note is applicable for SkyEdge II-c Capricorn MEC CPE. The Capricorn MEC CPE includes an embedded MEC unit (general processor board) treated as an external PC.

Part Number	Description
593040	SkyEdge II-c Capricorn MEC DC/2PS/24vODU/ Input 40-60V/7A per input

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

- Be trained in how to install the SkyEdge II-c Capricorn MEC CPE
- Be familiar with the SkyEdge II-c CPE Installation Manual (DC-103322-X)
- Have the CPE configuration parameters available for use

The SkyEdge II-c Capricorn MEC CPE is meant to be installed in a 19-inch rack. The CPE should be inserted in the rack and secured using rack-mount ears.

The CPE can be installed with either front or rear panel facing forward. By default, the CPE is supplied with rack-mount front ears secured to the front panel. The installation kit includes an additional pair of rack-mount back ears for securing to the CPE rear panel to install the CPE with the rear panel facing forward. The CPE may contain a built DC Inserter.



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.

The CPE power connection can be of two types:

- Using Gilat power cables (CB000912) that includes 7A fuse on the “+” wire.
OR
- Using power cable (2 pieces) provided by a customer (length ~2m, AWG 16/18, fuse 7A). In this case, Gilat supplies connectors for power cables (CN000269 x 4 pieces, CN000262 x 2 pieces).

Unpacking Guidelines

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




CAUTION

- **THE CPE MUST BE GROUNDED PRIOR TO INSTALLATION BY ATTACHING ONE END OF THE GROUNDING CABLE TO THE GROUNDING STUD ON THE REAR OF THE CPE, AND THE OTHER END TO THE SITE MAIN GROUND CONNECTION. 18AWG 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.**

General Precautions

- Do not block the ventilation openings of the CPE.
- Do not place the CPE in a location that would deviate from typical ambient environmental conditions of temperature, humidity, and moisture.
- Do not place any object on top of the CPE.



WARNING

BEFORE INSTALLING THE UNIT, VERIFY THAT THE ANTENNA AND AC 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.

(Optional) Attaching Rack Mount Back Ears

To install the CPE with the rear panel facing forward:

1. Remove the screws holding the rack-mount front ears.
2. Remove the rack-mount front ears.
3. Secure the screws to the front panel.
4. Remove the screws from the rear panel.
5. Install the rack-mount back ears to the rear panel and tighten the screws.

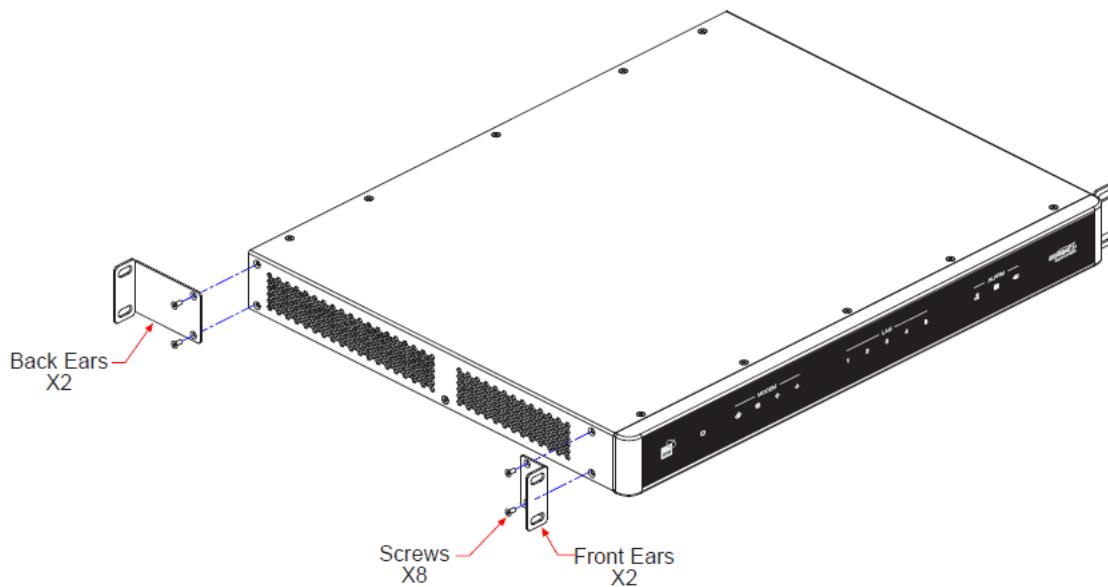



Figure 1: Capricorn MEC Rack-Mount



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.



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Connecting RF Cables

Connect the two RF cables (from the LNB and ODU) to the RF-IN and RF-OUT connectors, respectively, as shown below, using a recommended torque of 13 lb*ft/in (1.5 N/m).

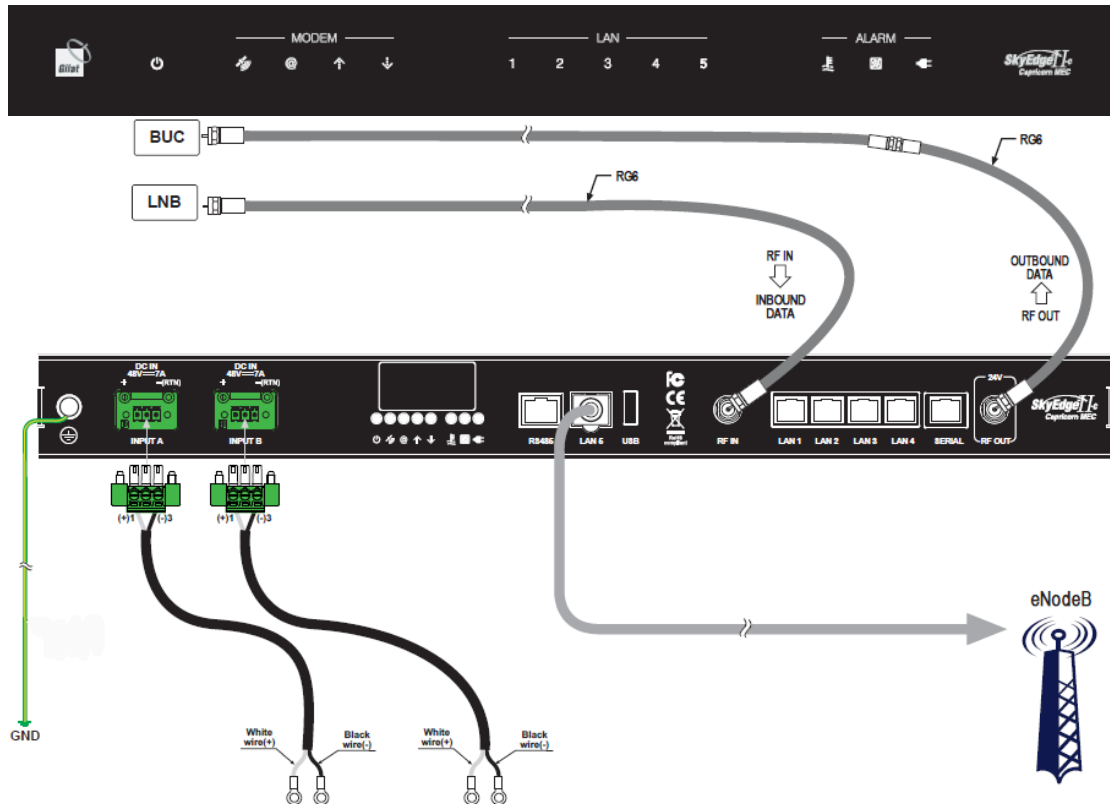


Figure 2: Capricorn MEC CPE Cables

Connecting LAN Cable

Use only CAT-5 type cables (approved by Gilat) to connect to the LAN ports. Use only the LAN LEDs indications to make sure that the LAN ports are operational.

Connecting Grounding Cable

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

Connecting Power



WARNING

THE UNIT MAY HAVE MORE THAN ONE POWER CORD. TO REDUCE THE RISK OF ELECTRIC SHOCK, DISCONNECT ALL POWER CORDS BEFORE SERVICING THE UNIT.

The Capricorn CPE is powered with a 48VDC external power source. The power connection must be via fuse 7A as follows:

- Use the power cables supplied by Gilat.
OR
- The customer will supply the power cable (2 pieces). Connect the (+) to the +48V and connect the (-) to the-(RTN). Use the 7A fuse connected in the positive wire close the product DC Input.
- DC power feeding source: “readily accessible two pole circuit breaker should be provided in the building installation” Rated 10A.



CAUTION

TO PREVENT DAMAGE TO THE MEC BOARD, AVOID DISCONNECTING THE POWER SOURCE WHILE THE CPE IS OPERATIONAL.