1 Assemble

Tools Required

FlexRadio Cabinet requires the following tools for installation:
- #2 Phillips bit screwdriver
- ⅞ in (2.22 cm) hole saw or step drill bit with power drill
- Hand wrench

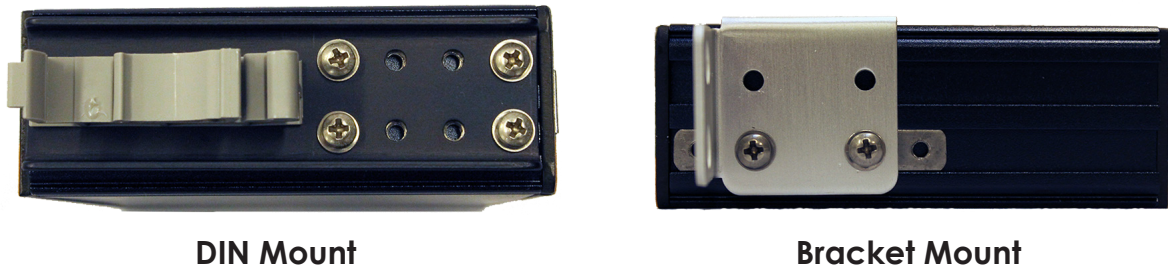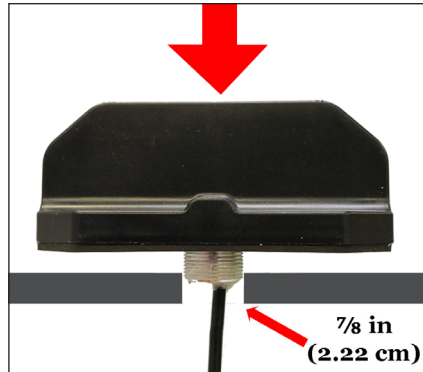M3x4 mm screw x 4

Rail x 2

FlexRadio Cabinet Installation Parts

A FlexRadio Cabinet assembly requires a single FlexRadio Cabinet, omni directional antenna, 6 foot coaxial cable, and the bracket/DIN mount kit.

2 Install FlexRadio Cabinet

DIN Mount

Bracket Mount

Install FlexRadio Cabinet

Use the Sensys Networks provided DIN or bracket mounts to install the FlexRadio Cabinet inside the traffic cabinet.

Refer to *Assembly Instructions Bracket and DIN Mounts* for more information.

3 Install Omni Directional Antenna

**7⁄8 in
(2.22 cm)**

Omni Directional Antenna Installation

These installation instructions only apply to ANT-CM-RAD. Please refer to the antenna instructions provided in the antenna packaging for more details.

Prep Surface

The traffic cabinet top must be a horizontal surface and the antenna area should be dry and clean of debris before installing.
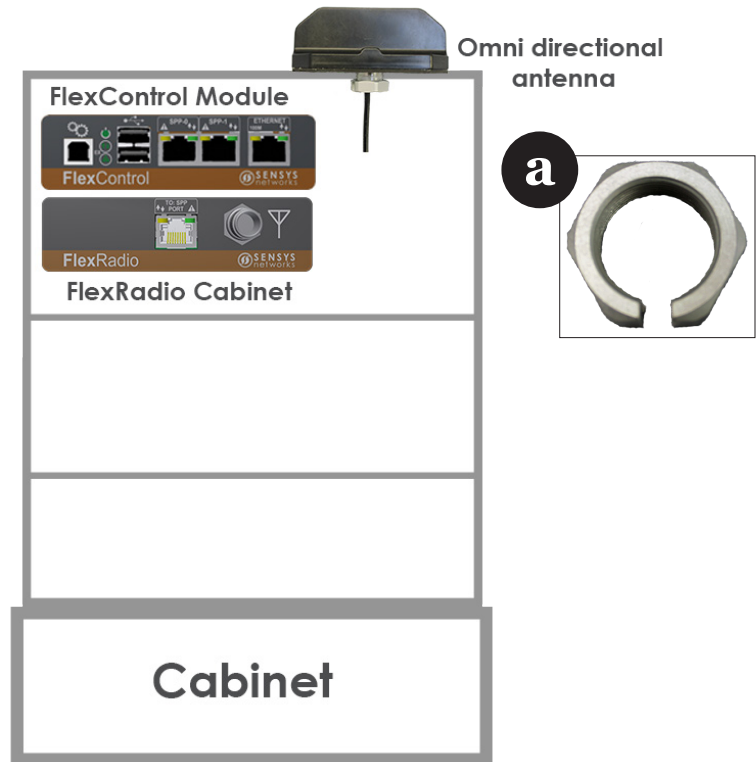
Drill a Hole in Traffic Cabinet

Drill a 7⁄8 in (2.22 cm) diameter hole on top of the flat surface of the traffic cabinet with a hole saw or a step drill bit where the omni directional antenna will be installed. Ensure the hole is deburred.

Note: Ensure the antenna hole location will not interfere with the internal components of the traffic cabinet. Ensure that there is sufficient ground plane for the antenna. **Orient the antenna fin in the general direction of the repeaters**.
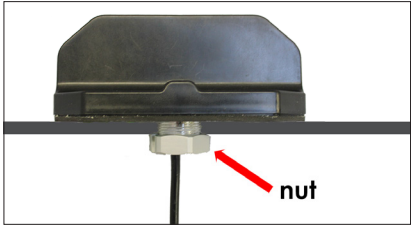
Thread Connectors into Cabinet

Pass the connectors through the hole. Pull the cable until the threaded end of the antenna ferrule appears in the hole. **DO NOT** pull on connectors. Pulling on the connectors may cause them to detach or may cause internal damage to the cable connection.

Add Nut

Install the nut (a) onto the threaded ferrule. Ensure the side of the nut is flush against the top of the inside surface.

Omni directional antenna

FlexControl Module

FlexControl

FlexRadio Cabinet

FlexRadio

a

Cabinet

3 **Install Omni Directional Antenna (cont.)**

← nut

Secure Nut

Hand tighten the nut two more turns to secure the antenna and to compress the antenna's gasket. If the gasket is not seated, continue tightening the nut until a seal is formed.

4 **Connect Cables to the FlexRadio Cabinet**

Omni directional antenna

FlexControl Module

FlexControl

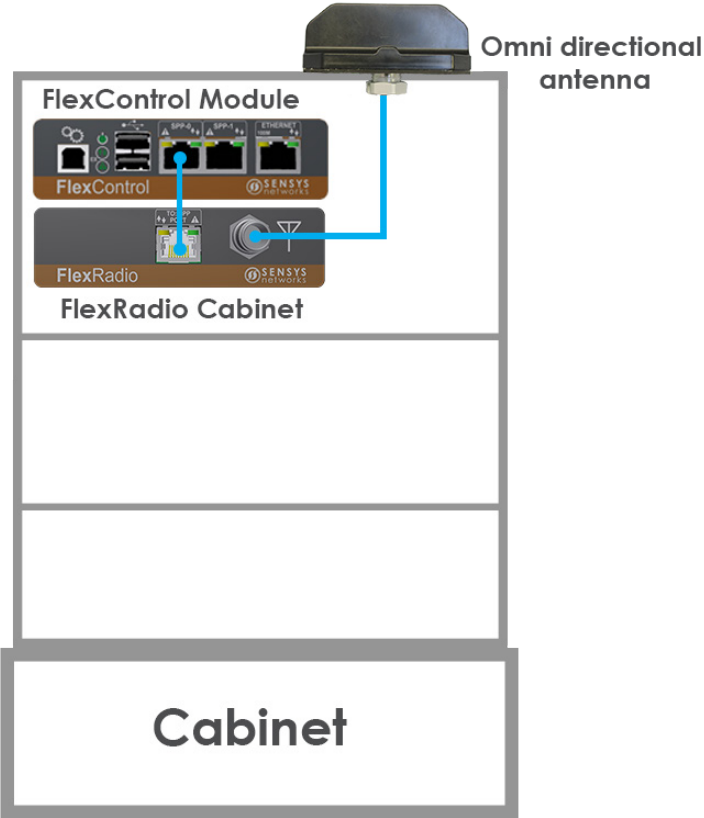**FlexRadio Cabinet**

FlexRadio

Cabinet

Connect the Antenna to FlexRadio Cabinet

Connect the RP TNC male end to the FlexRadio Cabinet's RF connector.

WARNING: DO NOT OVER BEND CABLE. Bend radius must be greater than 6 in (15.2 cm).

Power FlexRadio Cabinet

Connect FlexRadio Cabinet to FlexControl Module using CAT5 (or better) straight-through cables between *TO: SPP PORT* on the FlexRadio Cabinet and the *SPP-0 (or SPP-1)* port on the FlexControl Module.

Notice: Any violations will void the user's authority to operate the equipment. The customer may use an alternative external antenna. However, the external antenna must have gain less than +6dBi to meet regulatory requirements.

Local Distributor