Installation instruction

0.6m Antenna



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Tools required

- ✓ Allen key 3mm; for M4.
- ✓ Combination wrench (ring/open jaw) for Hex 13mm; for M8.
- ✓ Socket wrench and sockets for Hex 13mm; for M8.
- ✓ Tool for torque levels; 2.7Nm, 24Nm and 32Nm.

Unpacking

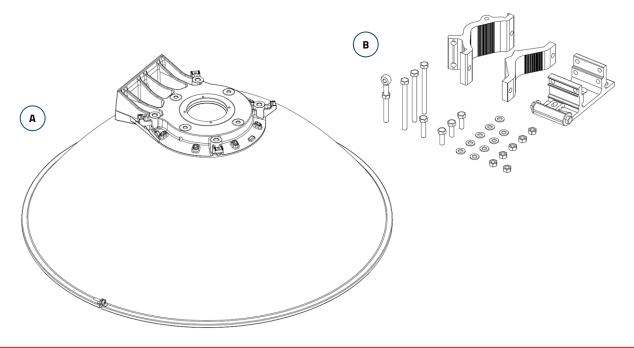
Antennas equipped with a flat radome should be placed on a flat clean surface during assembly, such as on top of the packing material. When equipped with a spherical radome, it might help to stabilize the antenna during installation, by placing it on top of a suitable packaging insert/box.



Handle Antenn carefully at all times.

Included parts

Item	Qty	Description
Α	1	Antenna
В	1	Antenna support (Box)
	1	Pipe attachment bracket
	1	Clamp bracket
	1	Pivot bracket
	1	M8 link screw (and M8 nut)
	3	M8x100 screw
	1	M8x35 screw
	3	M8x25 screw
	9	Washer M8
	6	M8 nut

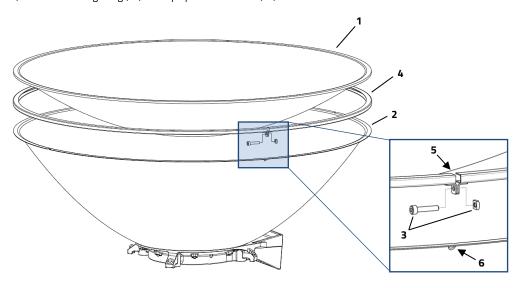


Assembly

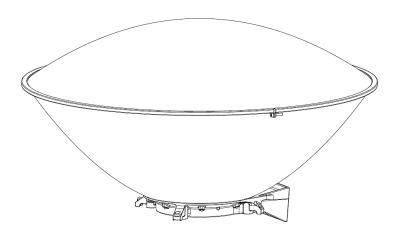
Step 1 - Radome (only 26-42GHz)

For frequencies 7/8-23, 80GHz, skip Step 1 and go directly to Step 2. For frequencies 26-42GHz, start with Step 1a-1e.

- a) Detach Spherical radome (1) from Reflector (2) by unscrewing 1pc M4 screw and 1pc square Nut (3).
- b) Dismount Edge ring (4) and flip Spherical radome (1) 180°.



- c) Reattach Spherical radome (1) and Edge ring (4) to Reflector (2) using the same M4 screw and square Nut (3).
- d) Depending on, if a left or right side installation is required, align the opening of the Edge ring (**5**) to one of the two drain holes in the Reflector (**6**). The opening of the Edge ring (**5**) should be facing downward after installation has been completed. (See "Assembly: Step 2 Left or Right side installation").
- e) Tighten screw to torque of 2.7Nm ± 5%.

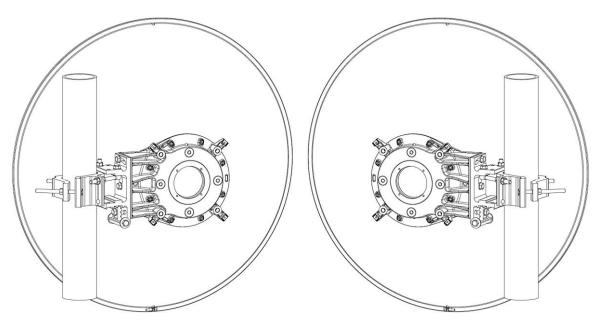




Step 2 – Left or Right side installation

Determine if a left or right side installation is required, before proceeding with the installation:

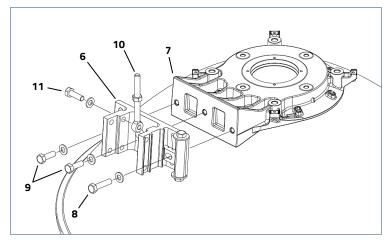
For a right side installation, see chapter: Step 3.1 – Antenna support (right side installation). For a left side installation, see chapter: Step 3.2 – Antenna support (left side installation).

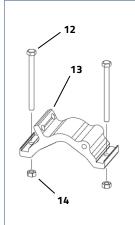


Left side installation

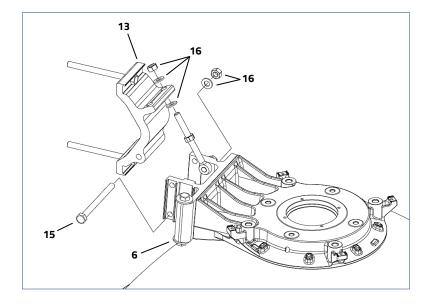
Step 3.1 – Antenna support (right side installation).

- a) Mount Pivot bracket (6) to Antenna (7) using 1pc M8x35 screw / 1pc Washer M8 (8) and 2pcs M8x25 screw / 2pcs Washer M8 (9). Fit screws finger tight.
- b) Mount 1pc M8 link screw (10) to Pivot bracket (6) using 1pc M8x25 screw / 1pc Washer M8 (11). Fit screw loosely.
- c) Mount 2pcs M8x100 screw (12) to Pipe attachment bracket (13) using 2pc M8 nut (14). Tighten nuts finger tight.





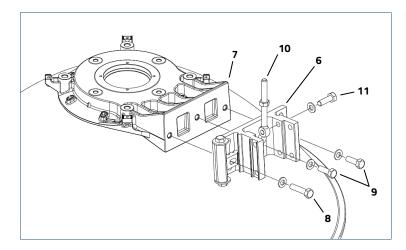
d) Mount Pipe attachment bracket (13) to Pivot bracket (6) using 1pcs M8x100 screw (15) and 2pcs M8 nut / 3pcs Washer M8 (16). Fit screw and nuts loosely.

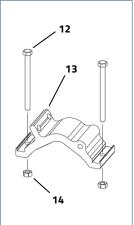




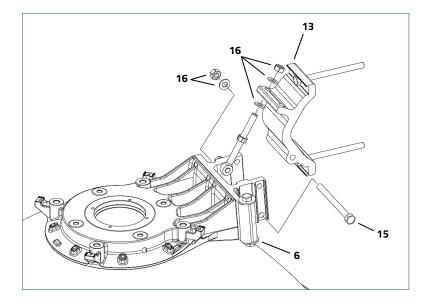
Step 3.2 – Antenna support (left side installation).

- a) Mount Pivot bracket (**6**) to Antenna (**7**) using 1pc M8x35 screw / 1pc Washer M8 (**8**) and 2pcs M8x25 screw / 2pcs Washer M8 (**9**). Fit screws finger tight.
- b) Mount 1pc M8 link screw (10) to Pivot bracket (6) using 1pc M8x25 screw / 1pc Washer M8 (11). Fit screw loosely.
- c) Mount 2pcs M8x100 screw (12) to Pipe attachment bracket (13) using 2pc M8 nut (14). Tighten nuts finger tight.





d) Mount Pipe attachment bracket (13) to Pivot bracket (6) using 1pcs M8x100 screw (15) and 2pcs M8 nut / 3pcs Washer M8 (16). Fit screw and nuts loosely.



Step 4 – Radio unique Installation

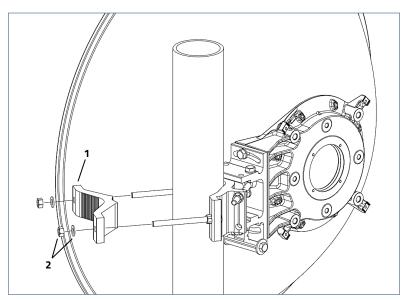
For assembling of radio interface; follow radio unique Installation Instruction.

Installation

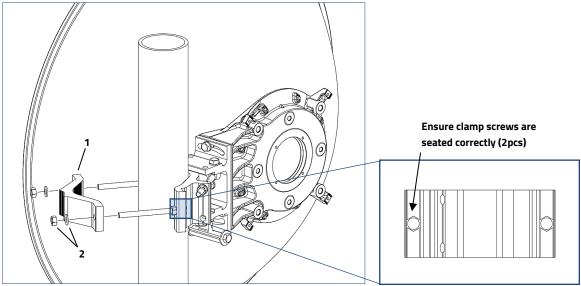
Tower pipe compatibility: Ø50- Ø120.

(Following steps/pictures describe a right side installation, see "Assembly: Step 2 – Left or Right side installation").

- a) Hoist and secure antenna to pipe using 1pc Clamp bracket (1) and 2pcs M8 nut / 2pcs Washer M8 (2). Flip the Clamp bracket depending on pipe diameter.
- b) Position the antenna so it will point along the radio link path and then tighten nuts to torque of 24Nm ± 5% if pipe is ø66-120mm or 32Nm ± 5% if pipe is ø50-66mm.



Clamp orientation for pipes Ø50-66mm (Tightening torque 32Nm)



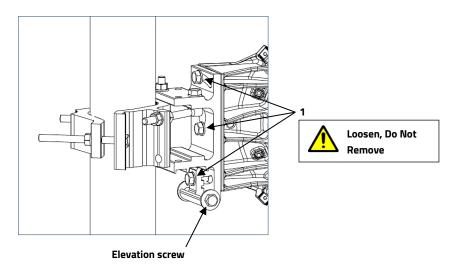
Clamp orientation for pipes Ø66-120mm (Tightening torque 24Nm)



Antenna alignment

Elevation adjustment

- a) Ensure 3pcs M8 screw (**1**) are slightly loose.
- b) Rotate **Elevation screw** to adjust direction ± 15°.
- c) On completion tighten screws to torque of 24Nm \pm 5%.



Azimuth adjustment

- a) Ensure 3pcs M8 nut (2) (3) and 1pc M8 screw (4) are slightly loose.
- b) Move M8 nuts (2) along **Azimuth screw** to adjust direction ± 15°.
- c) On completion tighten all nuts and screw to torque of 24Nm ± 5%.

