

POYNTING

BEYOND A CONNECTED LIFE

XPOL-1-5G



User Guide

Revision 4.0

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1. Packing Check List

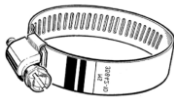
| Item | Description | Quantity |
|------|-----------------------------|----------|
| 1. | A-XPOL-1-5G Antenna Only | 1 |
| 2. | Pipe Clamp | 1 |
| 3. | Suckers | 4 |
| 4. | Sucker Mounting Pins | 4 |
| 5. | Wall Knock-in Screws | 4 |
| 6. | SMA Grip Extenders | 2/4 |

Appearance of components

Antenna Unit



Pipe Clamp



Suckers



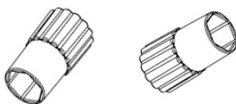
Sucker Mounting Pins



Wall Knock-in Screws



SMA Grip Extenders

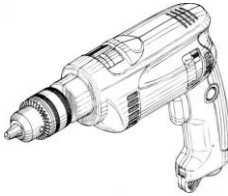


Tools Required

6mm Masonry Drill Bit



Impact Drilling Machine



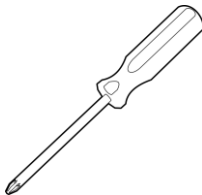
Hammer



Safety Goggles



Screwdriver- Cross Slot/ Philips



2. Introduction

This User Guide provides information on the installation instructions of the Cross polarized antenna (A-XPOL-1-5G).

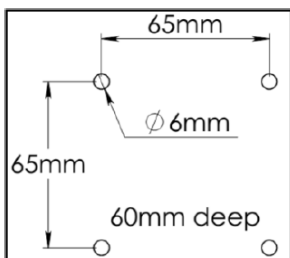
Note:

Ensure that all RF connections made outdoors are adequately waterproofed. Waterproof connector boots are recommended.

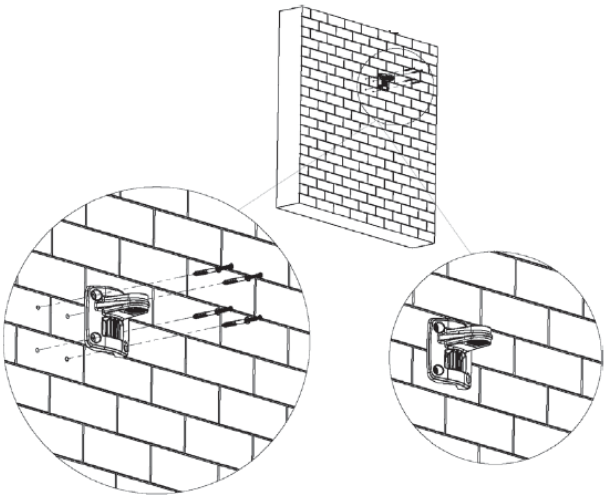
Antenna Configuration 1

Wall mount with supplied bracket and wall knock-in screws.

- Select a suitable place for mounting the antenna.
- Use a 6mm masonry drill bit to drill four holes into the wall. See the dimensions below.
- Place the bracket over the four holes and line up the holes in the bracket with the holes in the wall. Insert the four knock-in screws to mount the bracket to the wall.



Exploded View

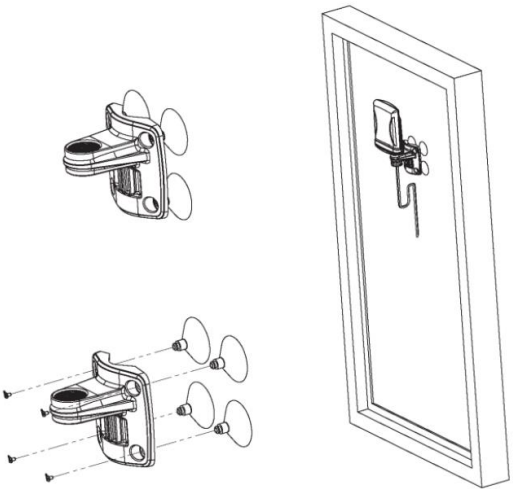


Antenna Configuration 2

Window mount with supplied suckers.

- Select a suitable mounting place for mounting the antenna.
- Clean the selected area to remove the dirt.
- Place each of the four suckers through the holes in the bracket.
- Insert the sucker pins from the front of the bracket into the hole in the four suckers.
- Carefully press the antenna suckers against a window, taking caution not to damage or break the window.

Exploded View

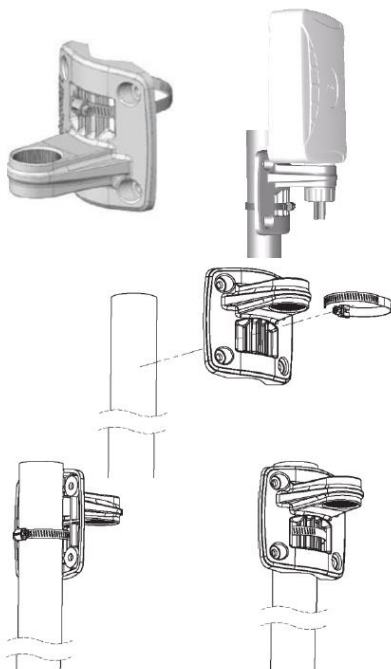


Antenna Configuration 3

Pole mount with supplied pipe clamp.

- Lay the antenna out at the installation site and assemble the antenna on the ground.
- Place the pipe clamp through the bracket as shown below.
- Place the cable clamp around the pole and tighten the screw on the cable clamp until the bracket is secured to the pole.
- Mount the antenna so that there is at least 1 meter of clearance in all directions around it and unobstructed line of sight to the cell tower's strongest signal.

Exploded View



3. Antenna Mounting Precautions

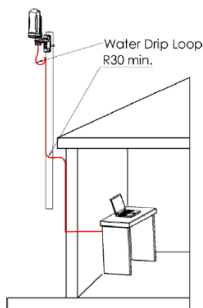
- Place the antenna at the highest point possible and ensure that there are not any surrounding obstructions to the antenna.
- In order to avoid communication interference, ensure that the antenna is placed at least 0.5m away from other antennas and metal objects.
- Avoid installing the antenna near a chimney, as the smoke and soot emitted by the chimney can obstruct the signal level achieved by the antenna.
- Install the antenna away from heat sources and flammable gases.

4. Cable Routing

- Survey the planned cable route and look for any blocked passages. Consider alternate routes to find the best available path. Always keep the cables as short as possible to make sure that minimum cable losses are achieved.
- Note: Take advantage of any existing cable channels. e.g., wiring conduits to route the cables.
- Avoid running cables through components or sharp apertures that may cause excessive chafing. Doing so may erode the jacket and break signal continuity. Also, avoid kinking, pinching, or twisting a cable during a run.
- Use cable ties to secure the antenna cables.

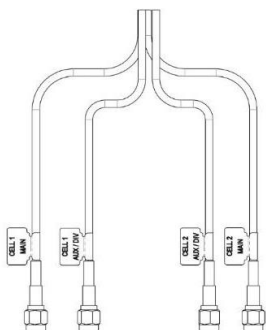
When handling the antenna cables, it is essential you follow these basic rules:

- Never pull on the cable connectors; pull only on the cable.
- Cover connectors with insulation tape before threading them through a hole.
- Tighten the connectors and ensure that the cables don't rattle loose.

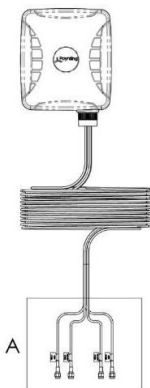


Note: The water drip loop is for preventing water from running down from the antenna along the cable into the house and possibly the PC or router.

5. 4x4 Cable Connection



DETAIL A



- Connect Cell 1(Main) cable to the respective Cell 1(Main) connector of the router. Similarly, connect Cell 2(Main) cable to the respective Cell 2 (Main) connector of the router.
- Connect Cell 1 (Aux/Div) cable to the respective Cell 1 (Aux/Div) connector of the router. Similarly, Connect Cell 2(Aux/Div) cable to the respective Cell 2(Aux/Div) connector of the router.
- In case of a 2-port LTE router, use one of the antenna diversity cable pairs. Use either Cell 1 (Main) & Cell 1 (Aux/Div) cables or Cell 2 (Main) & Cell 2 (Aux/Div) cables.
- In case of two routers that have two LTE ports each, you can split the antenna diversity cable pairs such that one router is connected to Cell 1 (Main) & Cell 1 (Aux/Div) cables and the other router is connected to Cell 2 (Main) & Cell 2 (Aux/Div) cables.

Note:

- Cell 1 Main and Cell 2 Main cables are connected to the horizontal elements.
- Cell 1 Aux/Div and Cell 2 Aux/Div cables are connected to the vertical elements.

5. Safety

- If you are installing an antenna for the first time or unsure about how to install your antenna, obtain the help of a professional installer.
- Carefully survey the installation site before installation to locate secure handholds, dangerous conditions (such as powerlines and weak roofs) and the safest and most convenient placement for ladders if necessary.
- The antenna may not be used as a climbing or pulling device.
- Considerations must be taken when mounting the antenna that people do not hang or pull on it.
- When installing your antenna, remember:
 1. Do not install on a wet or windy day or when there is lightning or thunder in the area.
 2. Wear shoes with rubber soles and heels, protective clothing (long sleeve shirt or jacket) and rubber gloves.
 3. Avoid installation while under the influence of drugs, alcohol or medication.
 4. Make sure that any loose-fitting jewelry or clothing is secured and tie back long hair as they can get caught in moving parts during installation.
 5. If the antenna assembly starts to fall, get away from it and let it fall to avoid harming yourself.

- When drilling remember:
 1. Use safety goggles when drilling the holes.
 2. Avoid using bits that are dull, bent or damaged.
 3. Be aware of where your fingers are in relation to the drill bit when using the drilling machine.
 4. To stop the drilling machine, let the drill chuck come to a complete stop on its own. Do not grasp the chuck in an attempt to stop the drill bit.
 5. Avoid awkward hand positions where a sudden slip could cause a hand to move into the drill bit or cutting tool.

CAUTION:

Antennas must be installed to provide a separation distance of at least 20cm from all persons to comply with SAR (Specific Absorption Rate) RF Exposure requirements.



European Waste Electronic Equipment Directive 2002/96/EC

Please ensure that old waste, electricals and electronics are recycled.



Directive 2011/65/EU (RoHS 3)

This product is fully compliant with the RoHS 3 directive.

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