



2x2 MIMO 5G Ready Cellular
Antenna System with GPS Receiver



IoT 20G



IoT 20G is high gain directional antenna designed to hold up against poor weather conditions and deliver reliable connectivity even in remote areas. Well equipped with IoT-friendly features, IoT 20G is here to pave your way to the new digital age.

10 dBi	IP 66	2x2 MIMO	B71 Support
↑↓ LTE	📍 GPS	5G	





OVERVIEW

- **High Gain**
Directional high gain 2x2 MIMO antenna configuration optimised for LTE bands.
- **Wide frequency**
Wide frequency range supporting LTE and 5G bands (600-6000MHz).
- **Robust design**
IP66 rated, durable vandal-proof and UV-stable housing.
- **Easy installation**
Simple wall or pole installation for various applications.

APPLICATION

- Remote Site Connectivity
- Public Safety and Mission Critical Connectivity
- Event Connectivity
- LTE / 5G Office Connectivity



SPECIFICATIONS

Cellular

- **Antenna elements:** 2 elements
- **Cellular frequency bands:** 6.4dBi: 617-960MHz, 10.2dBi: 1710-2700MHz, 7.9dBi: 3400-4200MHz, 7.0dBi: 4900-6000MHz
- **VSWR:** 1.5 - 5.0 : 617-960MHz, 1.1 - 3.1 : 1710-2700MHz, 1.0 - 3.0 : 3400-4200MHz, 1.5 - 4.1 : 4900-6000MHz
- **Feed power handling:** 5W
- **Input impedance:** 50 Ω
- **Polarisation:** Linear

GPS

- **Frequency range:** 1575-1602 MHz
- **Peak gain:** 1.2dBiC: 1575MHz, 2.0dBiC: 1602MHz
- **VSWR:** < 2.0
- **Output return loss:** -10dB max
- **LNA Gain:** 29 \pm 3dB
- **Operating Voltage:** 3.3V
- **Power consumption:** 9 \pm 2.5mA at 3.3V

Cable (Cellular)

- **Type:** LMR-200
- **Loss:** 0.33dB/m: 900 MHz, 0.49dB/m: 2000 MHz, 0.55dB/m: 2500 MHz, 0.87dB/m: 5800 MHz
- **Diameter:** 0.2" / 5.0mm
- **Jacket:** Half matt PVC, UV resistant
- **Termination:** SMA male, N-type male

Cable (GPS)

- **Type:** RG-174
- **Loss:** 3.4 dB/m @ 1000 MHz, 4.9 dB/m @ 1800 MHz
- **Diameter:** 0.1" / 2.7mm
- **Jacket:** Half matt PVC, UV resistant
- **Termination:** SMA male, N-type male

Mounting

- **Supported types:** Pole, wall
- **Pole diameter:** \varnothing 25-50mm

Mechanical

- **Product dimensions:** 325.3 x 301.3 x 77 mm
- **Packaged dimensions:** 360 x 310 x 145 mm
- **Housing material:** UV stable PC

Package contents

- **Antenna:** IoT 20G
- **Accessories:** Pole/Wall mount kit

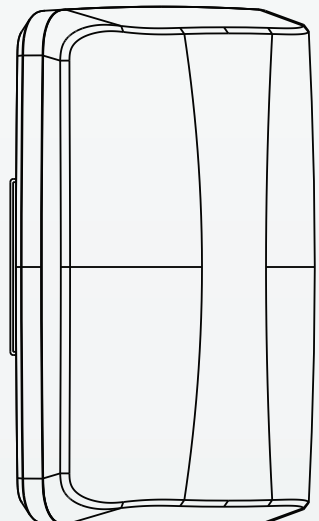
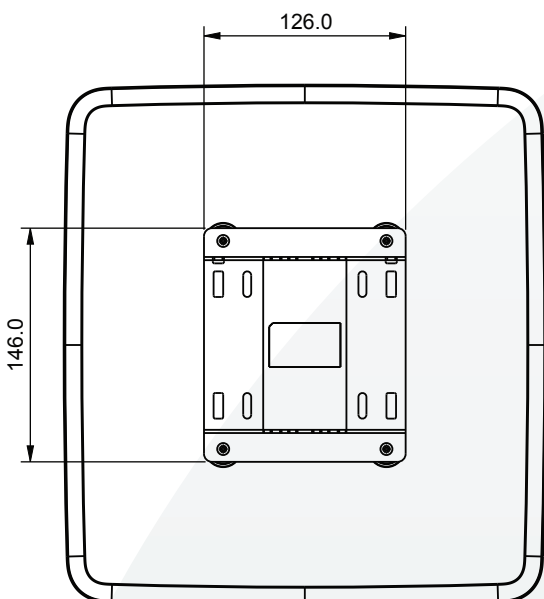
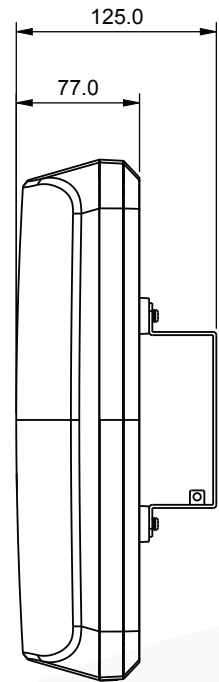
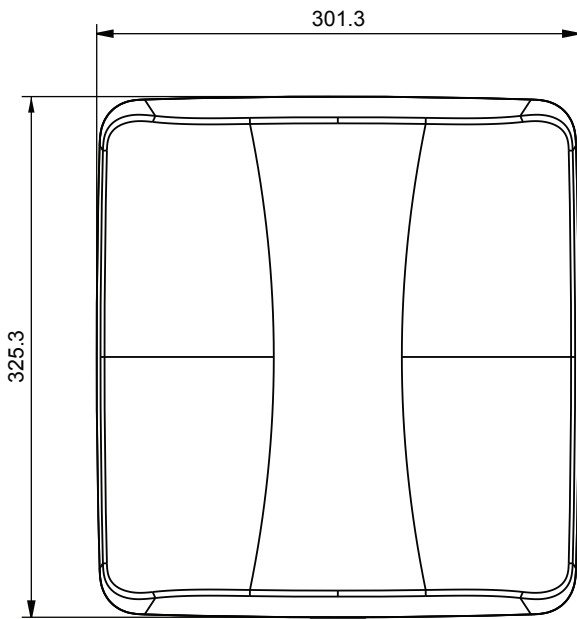
Environmental, compliance

- **IP rating:** IP66
- **Operating temperature:** -40° - 80°C
- **Storage temperature:** -40° - 80°C
- **Compliance:** Complies with RoHS requirements

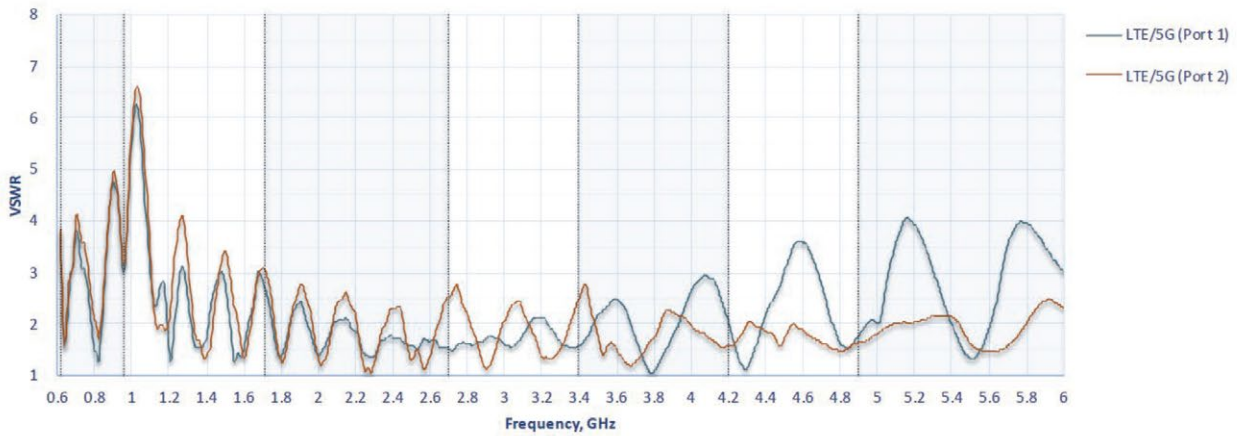
ORDERING INFORMATION

Product Code	Description
ANT-IOT-20G-S-W-16	2x LTE/5G, 1x GPS 600-6000MHz, IP66, SMA, White, 16 ft / 5m
ANT-IOT-20G-N-W-2	2x LTE/5G, 1x GPS 600-6000MHz, IP66, N-type, White, 2 ft / 0.5m

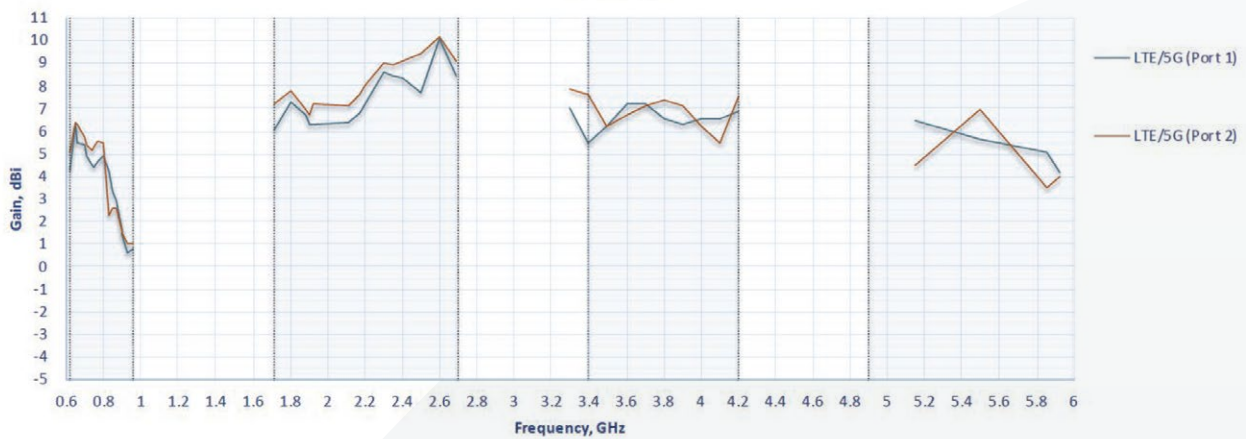
TECHNICAL DRAWING



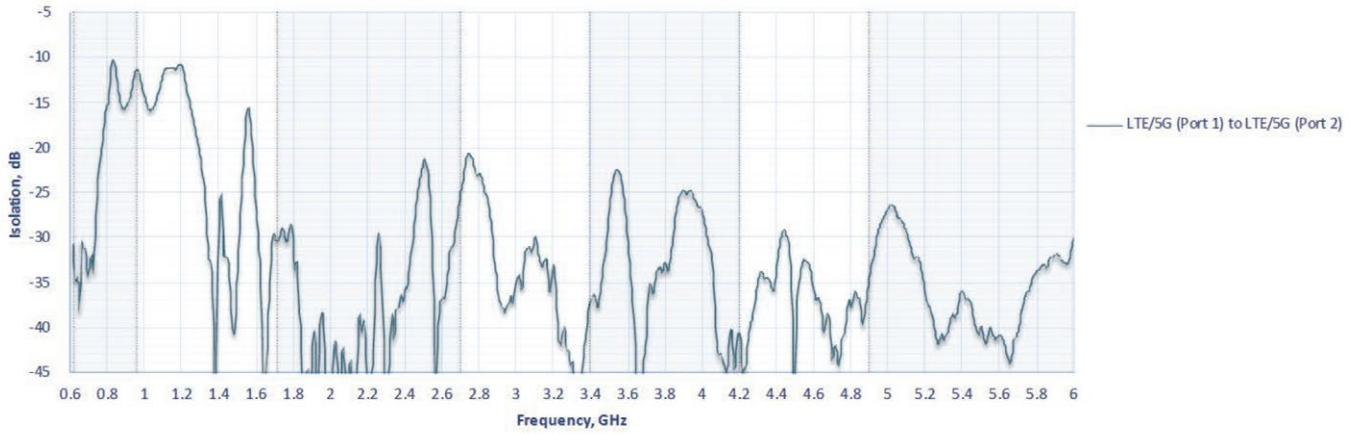
Cellular Antenna VSWR



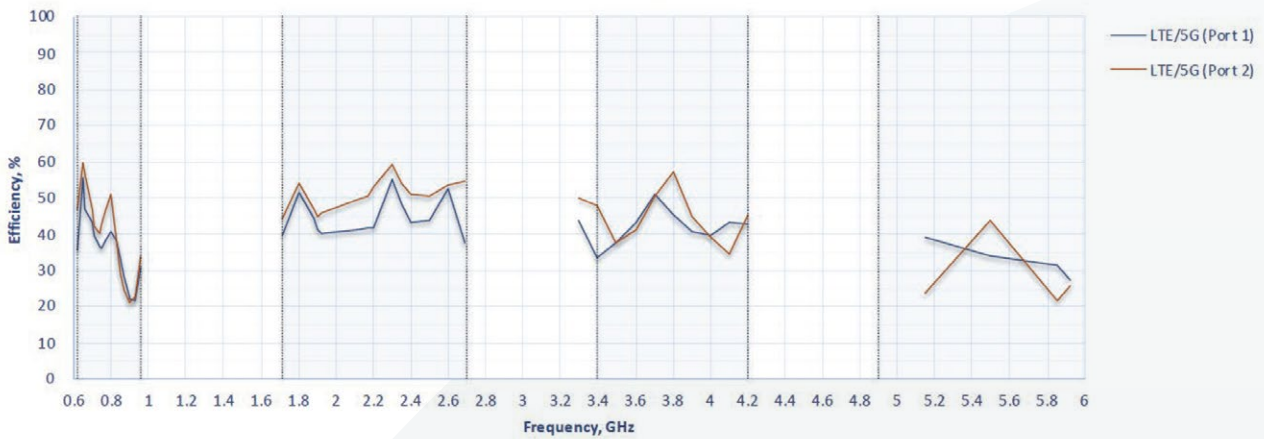
Cellular Antenna Gain



Cellular Antenna Isolation

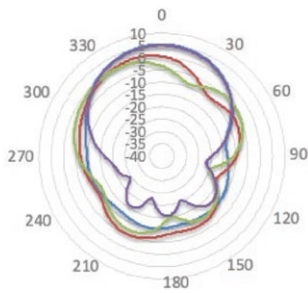


Cellular Antenna Efficiency



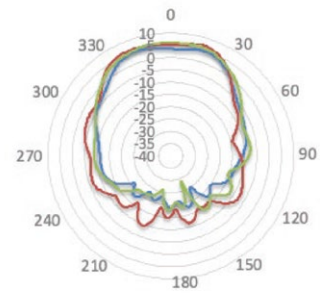
Radiation patterns (Azimuth)

617-960 MHz



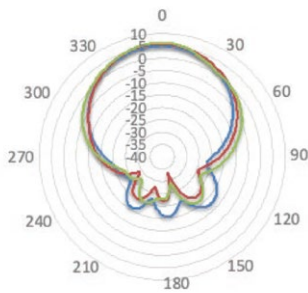
— 698MHz — 900MHz — 960MHz — 1710MHz

3400-3800 MHz



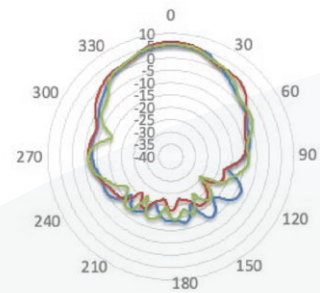
— 3400MHz — 3600MHz — 3800MHz

1710-2100MHz



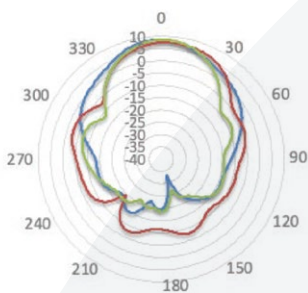
— 1710MHz — 1900MHz — 2110MHz

3900-5150 MHz



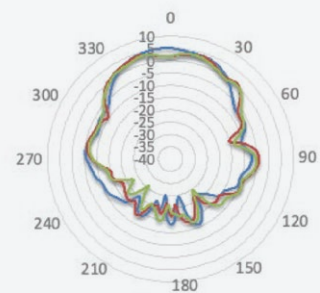
— 3900MHz — 4200MHz — 5150MHz

2300-2700 MHz



— 2300MHz — 2500MHz — 2690MHz

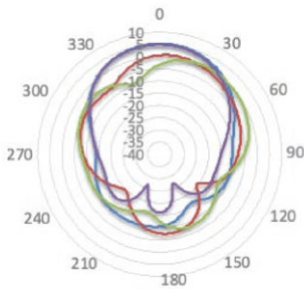
5350-5930 MHz



— 5500MHz — 5850MHz — 5925MHz

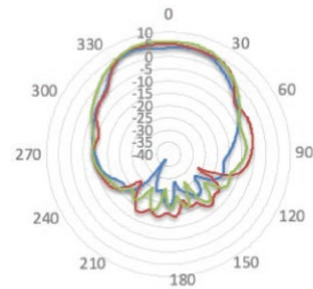
Radiation patterns (Elevation)

617-960 MHz



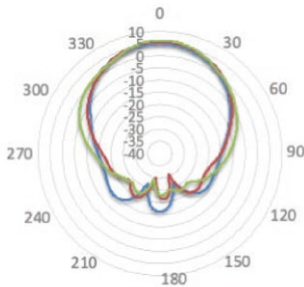
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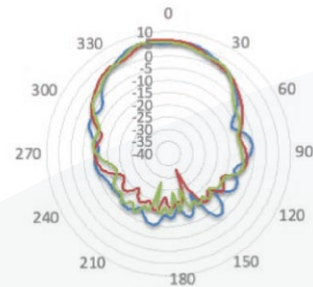
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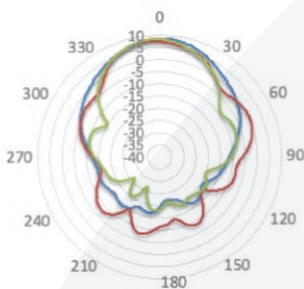
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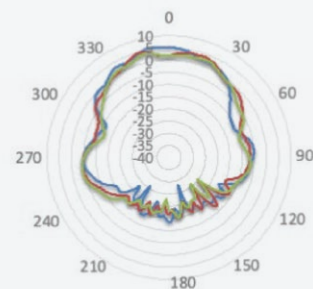
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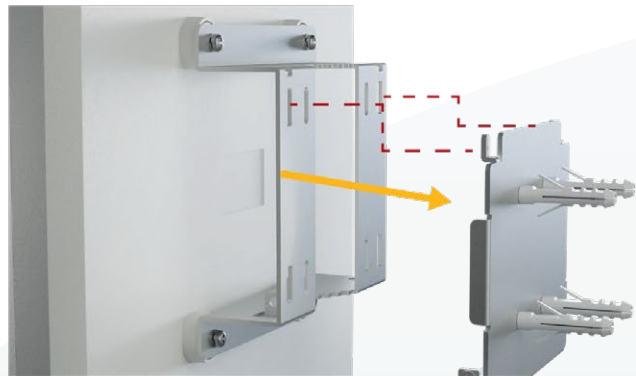
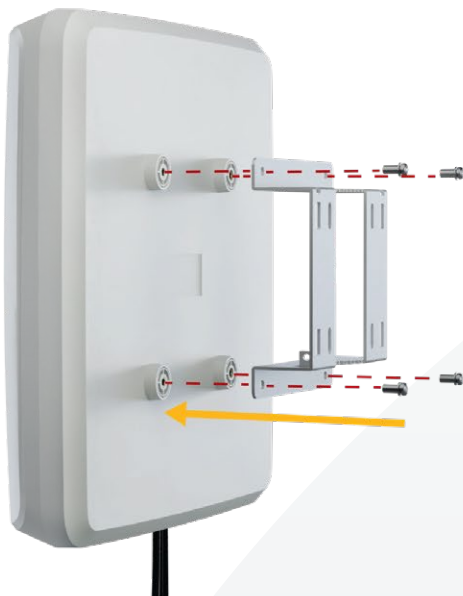
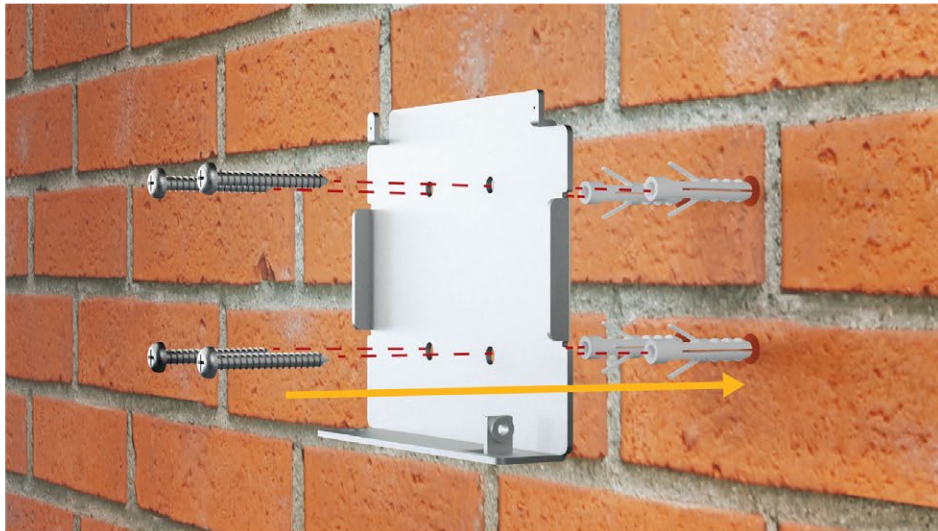
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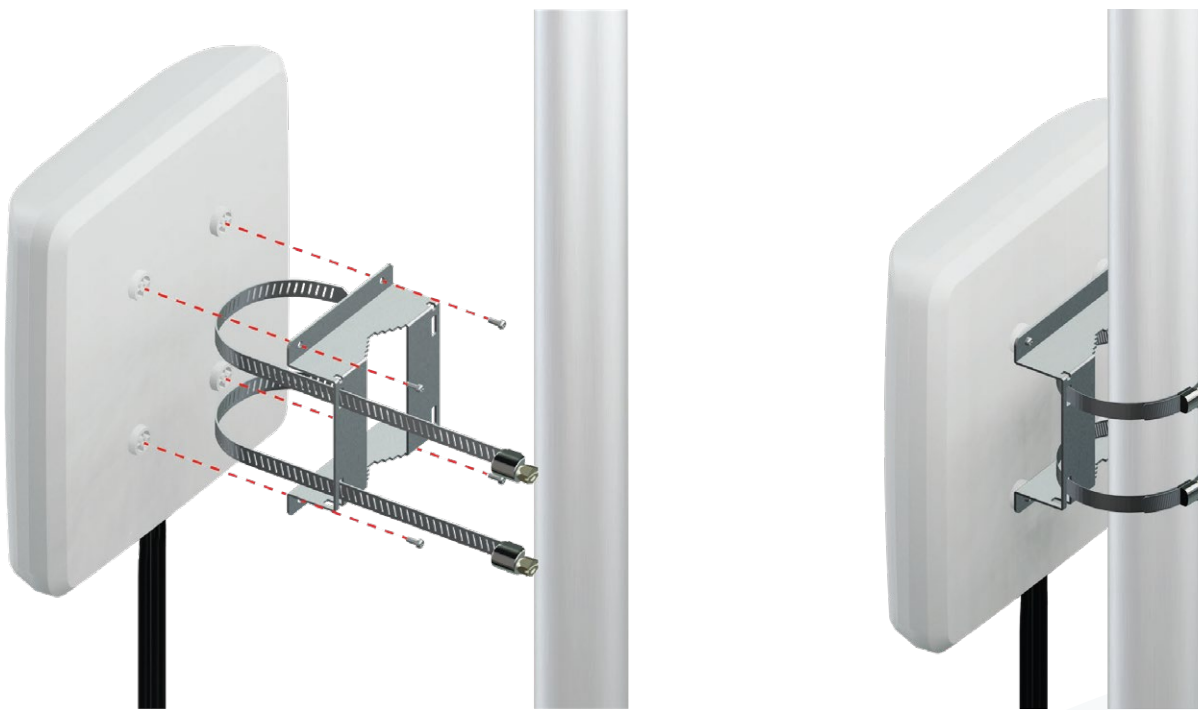


— 5500MHz — 5850MHz — 5925MHz

Wall Mount Installation Recommendation



Pole Mount Installation Recommendation



Why Rising Connection is using equipment designed and built by Peplink?

- Industry leader in both ISP & Data Bonding across multiple technology platforms
- Reliable hardware from entry level professional equipment through to advanced Enterprises solutions
- Worldwide supported and local support here in Australia by fully trained technicians
- Reliable and secure redundancy paths for mission critical sites
- Designed for maximum possible business uptime

This demonstrates to Rising Connection that you will have the Quality, Reliability and Product Support.
