EPNT-4

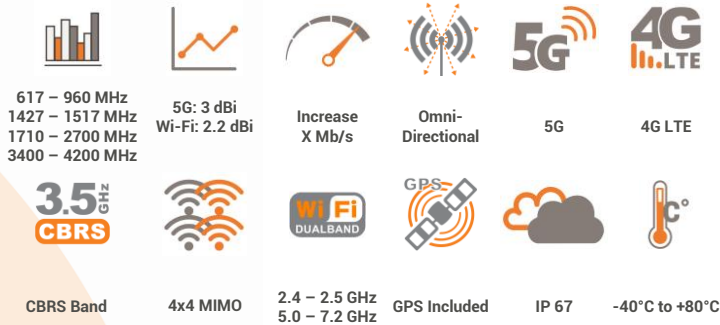**ANTENNAS | EPNT-4 SERIES**

X-POLARISED, OMNI-DIRECTIONAL, 5G/4G & WI-FI CPE

617 – 4200 MHz, 3 dBi; 2400 – 2500 MHz & 5000 – 7200 MHz, 2.2 dBi

617 – 960 MHz 1427 – 1517 MHz 1710 – 2700 MHz 3400 – 4200 MHz	5G: 3 dBi Wi-Fi: 2.2 dBi	Increase X Mb/s	Omni-Directional	5G	4G LTE
3.5 GHz CBRS Band	4x4 MIMO	2.4 – 2.5 GHz 5.0 – 7.2 GHz	GPS Included	IP 67	-40°C to +80°C

APPLICATION AREAS

Urban

Rural/Farm

Commercial & Industrial

Marine

- An all-in-one solution integrating high-performance antennas with your router into a single rugged outdoor enclosure
- Minimal RF cable losses, as there is no need for lengthy RF cables to connect to your router, enhancing overall antenna performance
- Backwards compatible with 2G/3G/4G technologies
- 2x2 or 4x4 MIMO Wi-Fi antennas for 2.4 GHz and 5 to 7.2 GHz
- Available router size of up to 140 x 120 x 50 mm³
- 316 stainless steel bracket included for marine applications
- Weather/dust and vandal-resistant enclosure (IP67)

Product Overview

The EPNT-4 is Poynting's newly added omni-directional, customer-premises equipment (CPE). The EPNT-4 offers a variety of antennas in one package, such as 4x4 5G/4G MIMO, 4x4 Wi-Fi MIMO, as well as an additional GPS antenna. The cellular 5G/4G antennas are wideband and operate from 617 to 4200 MHz, covering the major 5G/4G bands with excellent gain across all frequencies, enhancing the 5G/4G performance features, such as multi carrier aggregation (CA) for communication. While the Wi-Fi antennas offer dual-band operation and cover the 2.4 GHz and 5 to 7.2 GHz Wi-Fi bands with a peak gain of 2.2 dBi. In addition, the antenna elements within the enclosure are cross-polarised, further improving the overall performance of the antenna. The combination of our cellular and Wi-Fi antennas, with a router will deliver a CPE with exceptional performance along with increased data throughput.

The EPNT-4 is also fully saltwater protected, so that it can be used in highly corrosive environments, including chemical and toxic environments, thanks to the UV stable ASA radome material. The enclosure also offers a robust mechanical design to withstand adverse weather conditions, making the EPNT-4 vandal and weatherproof with an IP67 & IK10 rating.

Features

- Wideband cellular coverage from 617 to 4200 MHz, with up to 4x4 MIMO
- 2x2 MIMO or 4x4 MIMO dual-band Wi-Fi at 2.4 & 5 to 7.2 GHz
- Cleverly designed decorrelated antennas give superior MIMO performance in both cellular and Wi-Fi bands
- Includes high-performance GPS/GLONASS antenna
- Precise mechanical design provides ruggedness, water, and dust resistance (IP67)
- Wall, pole, and surface mountable
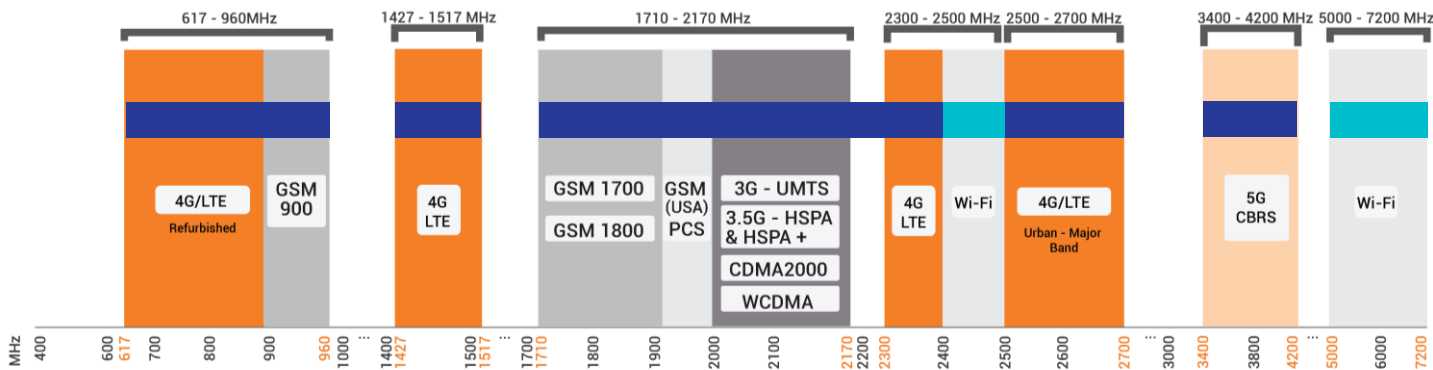- Includes a 316 stainless steel bracket perfect for marine applications

Application Areas

- Industrial factory automation, robotic machinery and other M2M systems telemetry
- Farming & agricultural automation such as M2M & IoT
- Broadband cellular to Wi-Fi distribution for marine / boats (inland and near coastal vessels)
- Outdoor antenna for Fixed Wireless Access (FWA)
- Consumer 5G/4G internet connectivity
- Industrial and commercial 5G/4G deployment

POYNTING
BEYOND A CONNECTED LIFE

Frequency Bands

The EPNT-4 is a CPE antenna that works from | 617 – 960 MHz | 1427 – 1517 MHz | 1710 – 2700 MHz | 3400 – 4200 MHz | and the following Wi-Fi frequency bands | 2400 – 2500 MHz | and | 5000 – 7200 MHz |

Indicates the 4G/ LTE bands on which EPNT-4 works

Indicates the WI-FI bands on which EPNT-4 works

Regulatory Compliance: RoHS 2011/65/EU Compliant | ISO 9001:2015
Document version: TS-EPNT-0004-V1 REV 7.0
www.poynting.tech

Antenna Derivatives

Product Order Code (SKU)	A-EPNT-0004-V1-15	A-EPNT-0004-V1-17	A-EPNT-0004-V1-19
Ports	1 & 2 – 5G/4G 3 & 4 - Wi-Fi 5 – GPS	1, 2, 3 & 4 – 5G/4G 5 & 6 - Wi-Fi 7 - GPS	1, 2, 3 & 4 – 5G/4G 5, 6, 7 & 8 - Wi-Fi 9 - GPS
SISO / MIMO	2x2 MIMO – 5G/4G 2x2 MIMO – Wi-Fi	4x4 MIMO – 5G/4G 2x2 MIMO – Wi-Fi	4x4 MIMO – 5G/4G 4x4 MIMO – Wi-Fi
Coax Cable Type	RTK-031 – 5G/4G, Wi-Fi & GPS	RTK-031 – 5G/4G, Wi-Fi & GPS	RTK-031 – 5G/4G, Wi-Fi & GPS
Coax Cable Length	150 mm – 5G/4G, Wi-Fi & GPS	150 mm - 5G/4G, Wi-Fi & GPS	150 mm - 5G/4G, Wi-Fi & GPS
Connector Type	RA-SMA* (M) – 5G/4G, & GPS RA-RP-SMA* (M)- Wi-Fi	RA-SMA* (M) – 5G/4G & GPS RA-RP-SMA* (M)- Wi-Fi	RA-SMA* (M) – 5G/4G & GPS RA-RP-SMA* (M)- Wi-Fi
Weight	1.175 kg	1.19 kg	1.2 kg
Packaged Weight	2.19 kg	2.21 kg	2.65 kg
EAN	6009710924853	6009710924877	6009710924631

*RA-SMA: Right Angle/90° SMA

*RA-RP-SMA: Right Angle/90° Reverse Polarity SMA

*The coax cables & connectors are factory mounted to the antenna

POYNTING
BEYOND A CONNECTED LIFE

Electrical Specifications - Cellular

Frequency Bands:	617 – 960 MHz
	1427 – 1517 MHz
	1710 – 2700 MHz
	3400 – 4200 MHz
Gain (Max):	1 dBi @ 617 – 960 MHz
	2 dBi @ 1427 – 1517 MHz
	3 dBi @ 1710 – 2700 MHz
	0 dBi @ 3400 - 4200 MHz
VSWR:	<3:1
Feed Power Handling:	10 W
Input Impedance:	50 Ohm (nominal)
Polarisation:	Cell 1: ±45° Cross Polarised
	Cell 2: ±45° Cross Polarised
Path to Ground:	Yes

Electrical Specifications - Wi-Fi

Frequency:	2400 - 2500 MHz
	5000 – 7200 MHz
Gain (Max):	2.2 dBi @ 2400 - 2500 MHz
	2.2 dBi @ 5000 - 7200 MHz
VSWR:	<2.5:1 over 90% of the band
Feed Power Handling:	10 W
Nominal Input Impedance:	50 Ohm (nominal)
Polarisation:	Wi-Fi (Main): Vertical & Horizontal Cross Polarised
	Wi-Fi (Aux): ±45° Cross Polarised
Path to Ground:	Yes

Electrical Specifications - GPS/Glonass

Frequency Range (GPS):	1575.42MHz/1600MHz
Gain (Max):	21+/-2dBi
VSWR:	≤1.5:1
DC Voltage:	2.7-3.3 V
DC Current:	5-15mA
Noise Figure:	≤1.5 dB
Nominal Impedance:	50 Ω
Polarisation:	RHCP
Filter Out Band Attenuation:	12dB Min f0+50MHz, 16dBi Min f0-50MHz
Max. Power:	50 W
Coax Cable Loss:	0.71 dB/m @ 1500 MHz

Product Box Contents

Antenna:	A-EPNT-0004-V1
Stainless Steel Bracket:	A-BRKT-091-V1-01

Mechanical Specifications

Product Dimensions:	351 mm x 238 mm x 182 mm
Maximum Router Dimensions:	140 mm x 120 mm x 50 mm
Packaged Dimensions:	405 mm x 280 mm x 200 mm
Radome Material:	UV Stable ASA
Radome Colour:	Brilliant White Pantone P 179-1C
Mounting Type:	Wall/ Pole and Surface Mounted

Environmental Specifications, Certification & Approvals

Antenna Wind Survival:	≤220 km/h
Included Bracket Wind Survival:	≤190 km/h
Optional Bracket/Surface Mount Wind Survival:	≤220 km/h
Temperature Range (Operating):	-40°C to +80°C
Environmental Conditions:	Outdoor/Indoor
Ingress Protection:	IP67
Salt Spray:	MIL-STD 810G/ASTM B117
Operating Relative Humidity:	Up to 98%
Storage Humidity:	5% to 95% - non-condensing
Storage Temperature:	-40°C to +80°C
Enclosure Flammability Rating:	UL 94-HB
Impact Resistance:	IK 10
Product Safety & Environmental:	Complies with CE and RoHS standards

Routers/Router boards have their own operating temperatures as provided in their individual data sheets. Routers/router boards mounted within an EPNT-4 which is exposed to solar radiation will operate at 10-12°C above ambient temperature. Please take this into consideration and select your device to be used with the EPNT-4 accordingly.

CE RoHS DEKRA

Antenna Performance Plots - Cellular

VSWR: Cellular Antenna
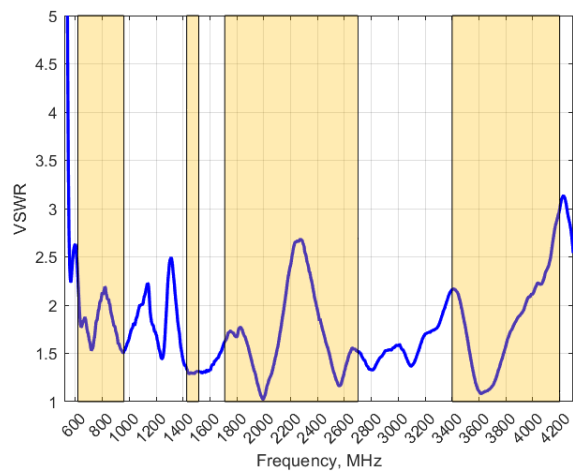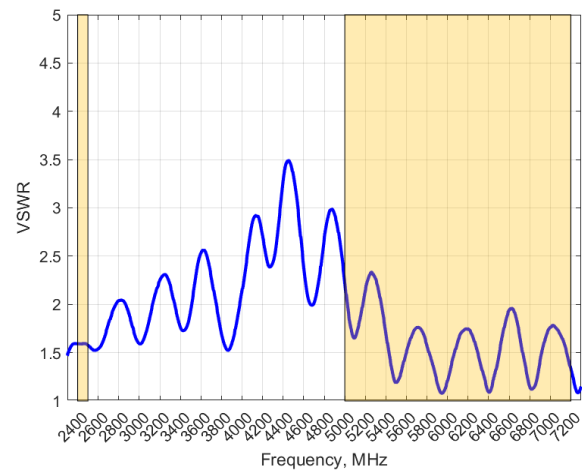

GAIN (EXCLUDING CABLE LOSS): Cellular Antenna

Voltage Standing Wave Ratio (VSWR)*

VSWR is a measure of how efficiently radio-frequency power is transmitted from a power source, through a transmission line, into a load. In an ideal system, 100% of the energy is transmitted which corresponds to a VSWR of 1:1.

The EPNT-4 delivers superior performance across all bands with a VSWR of <3:1.

VSWR measured without a cable.
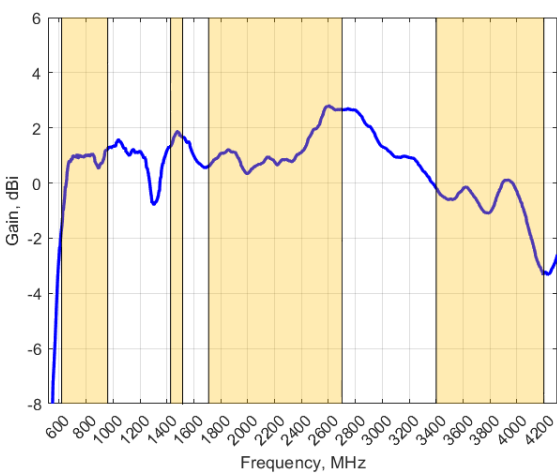
Gain+ in dBi

3 dBi is the peak gain across all bands from 617 − 4200 MHz

Gain @ 617 − 960 MHz:	1 dBi
Gain @ 1427 − 1517 MHz:	2 dBi
Gain @ 1710 − 2700 MHz:	3 dBi
Gain @ 3400 − 4200 MHz:	0 dBi

+Antenna gain measured with polarisation aligned standard antenna

VSWR: Wi-Fi Antenna

GAIN (EXCLUDING CABLE LOSS): Wi-Fi Antenna

Voltage Standing Wave Ratio (VSWR)*

VSWR is a measure of how efficiently radio-frequency power is transmitted from a power source, through a transmission line, into a load. In an ideal system, 100% of the energy is transmitted which corresponds to a VSWR of 1:1.

The EPNT-4 delivers superior performance across all bands with a VSWR of <2.5:1.

VSWR measured without a cable.
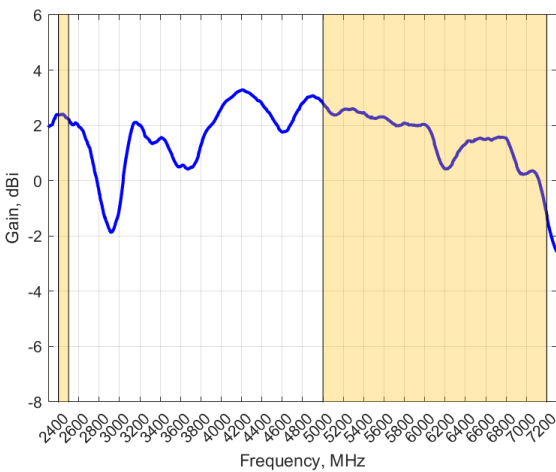
Gain+ in dBi

2.2 dBi is the peak gain across all bands from 2400 − 2500 MHz and 5000 − 7200 MHz

Gain @ 2400 - 2500 MHz:	2.2 dBi
Gain @ 5000 − 7200 MHz:	2.2 dBi

+Antenna gain measured with polarisation aligned standard antenna

EPNT-4

Regulatory Compliance: RoHS 2011/65/EU Compliant | ISO 9001:2015
Document version: TS-EPNT-0004-V1 REV 7.0
www.poynting.tech

Radiation Patterns – Cellular

Azimuth: 617 - 960 MHz
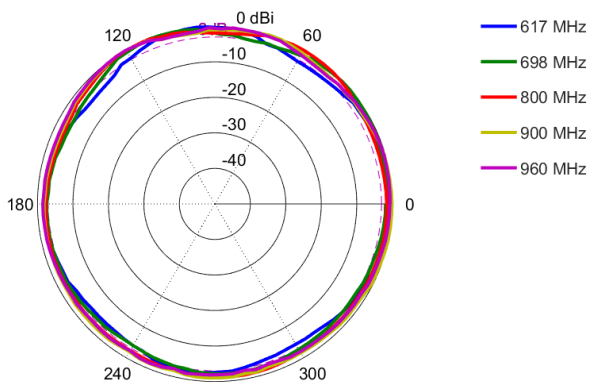
Elevation: 617 - 960 MHz
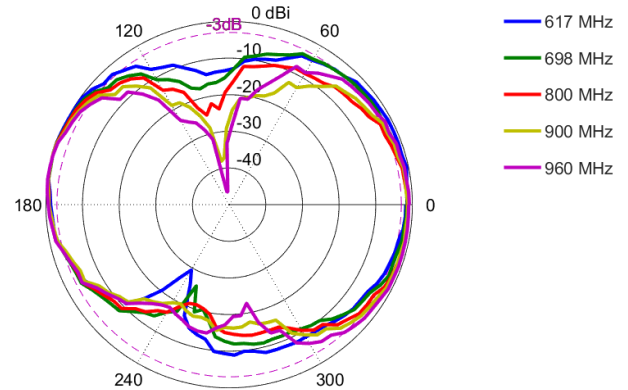
Azimuth: 1427 – 1517 MHz
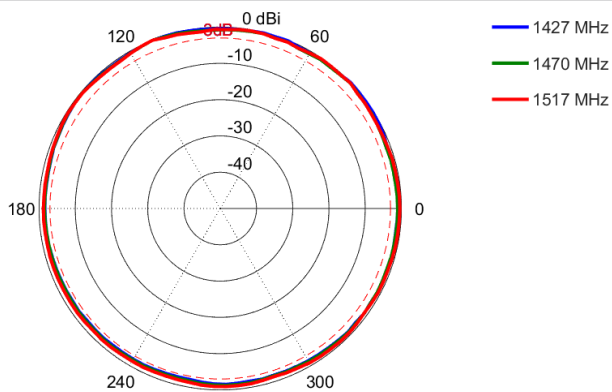
Elevation: 1427 – 1517 MHz
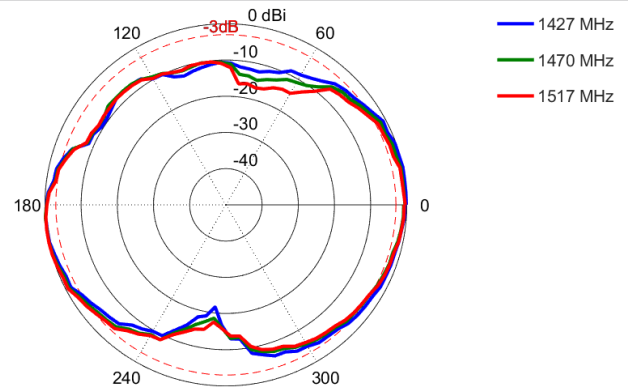
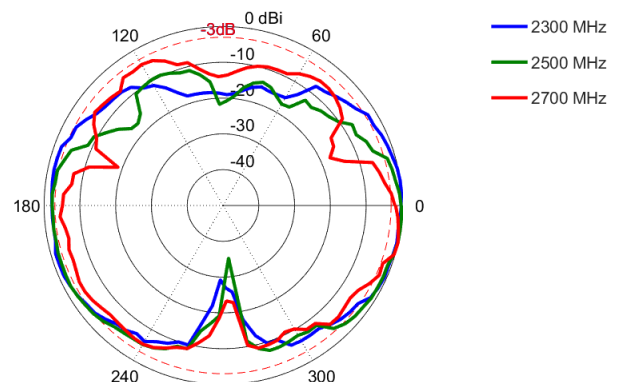### Azimuth: 1710 - 2100 MHz
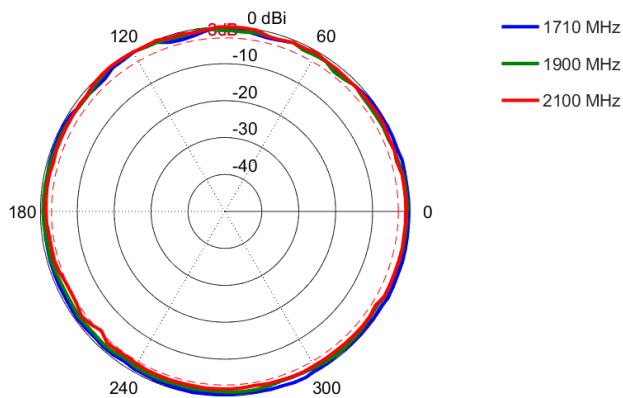
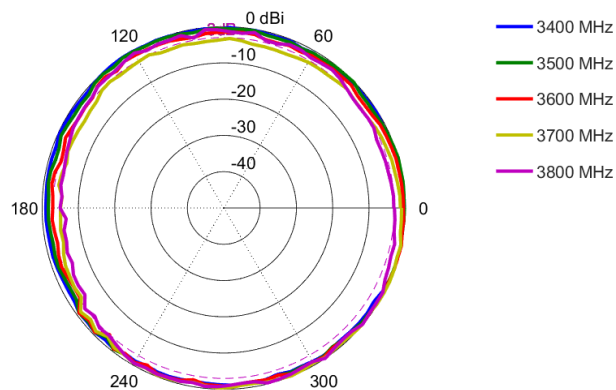### Elevation: 1710 - 2100 MHz
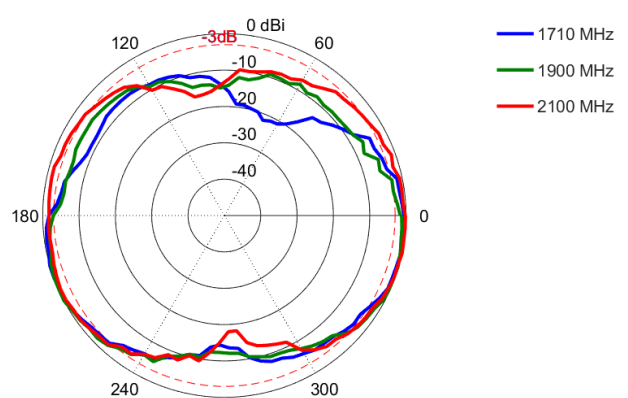
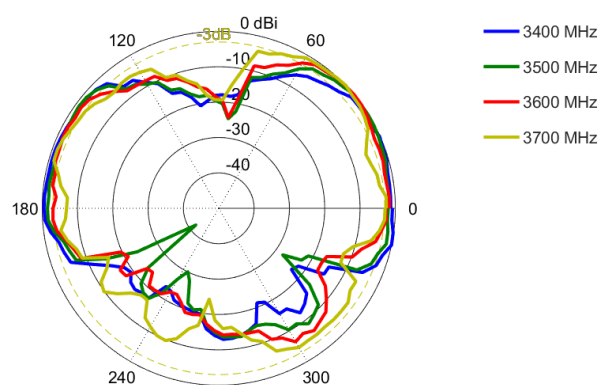### Azimuth: 2300 – 2700 MHz
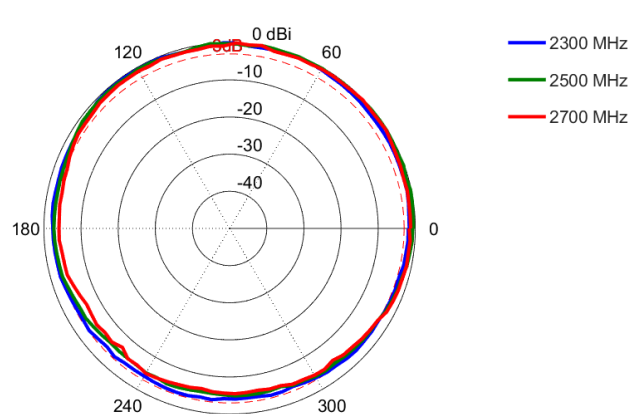
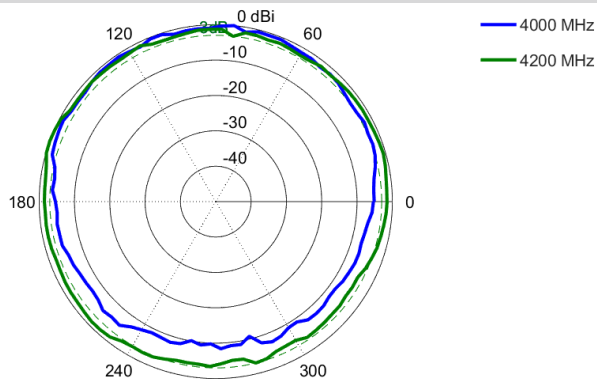### Elevation: 2300 – 2700 MHz
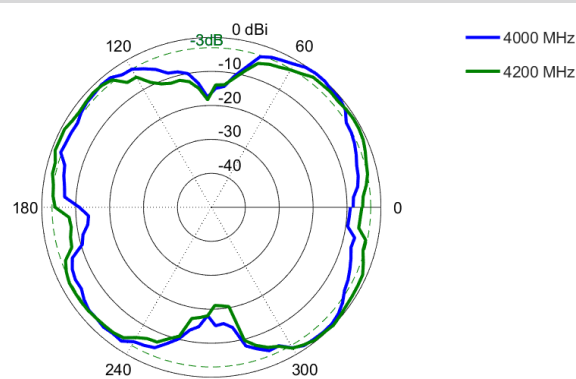
Azimuth: 3400 – 3800 MHz

Elevation: 3400 – 3700 MHz
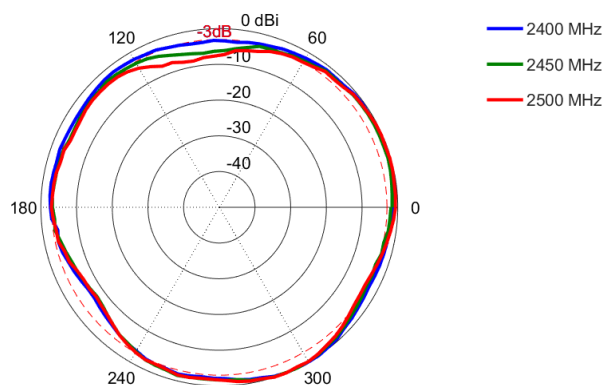

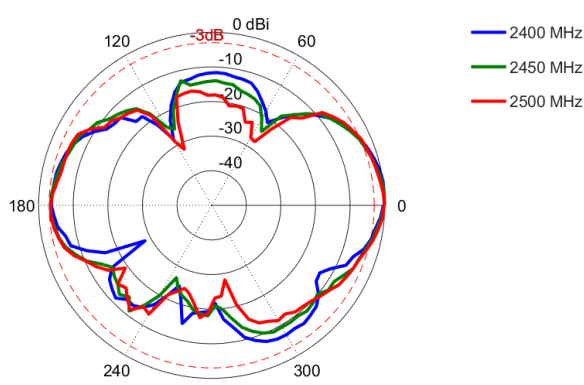## Azimuth: 4000 - 4200 MHz

Elevation: 4000 - 4200 MHz
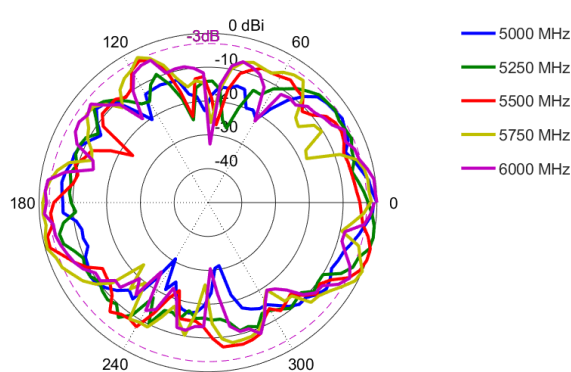

Radiation Patterns – Wi-Fi

Azimuth: 2400 - 2500 MHz

Elevation: 2400 - 2500 MHz

Azimuth: 5000 – 6000 MHz

Elevation: 5000 – 6000 MHz

POYNTING
BEYOND A CONNECTED LIFE
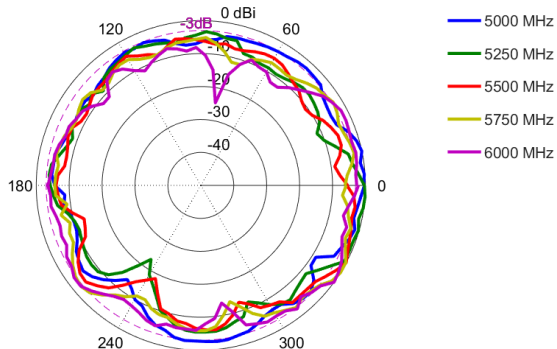
Azimuth: 6300 – 7200 MHz

- 6300 MHz
- 6600 MHz
- 6900 MHz
- 7200 MHz

Elevation: 6300 – 7200 MHz

- 6300 MHz
- 6600 MHz
- 6900 MHz
- 7200 MHz

EPNT-4

©**2025 Poynting Antennas (Pty) Ltd**. All rights reserved
Product Specifications may change without prior notice
Revised: May 2025

8

Regulatory Compliance: RoHS 2011/65/EU Compliant | ISO 9001:2015
Document version: TS-EPNT-0004-V1 REV 7.0
www.poynting.tech

Technical Drawings

9

Regulatory Compliance: RoHS 2011/65/EU Compliant | ISO 9001:2015
Document version: TS-EPNT-0004-V1 REV 7.0
www.poynting.tech

POYNTING
BEYOND A CONNECTED LIFE

Router

Router Mounting Dimensions

Note: Your router dimensions should not exceed 140mm x 120 mm x 50mm

Ø 3.5

3.0

(15.0)

120,6

120,6

Mounting Options

Pole Mount
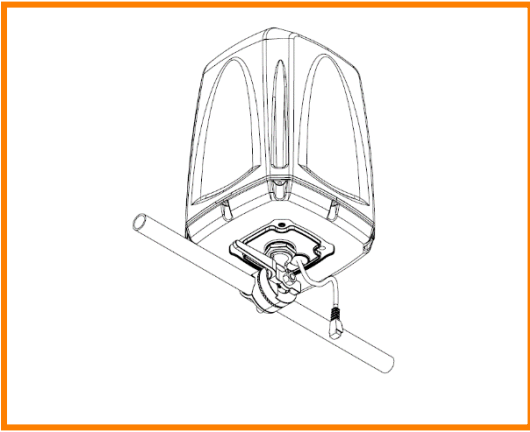
Pole mounting using U-bolts or pipe clamps (included)
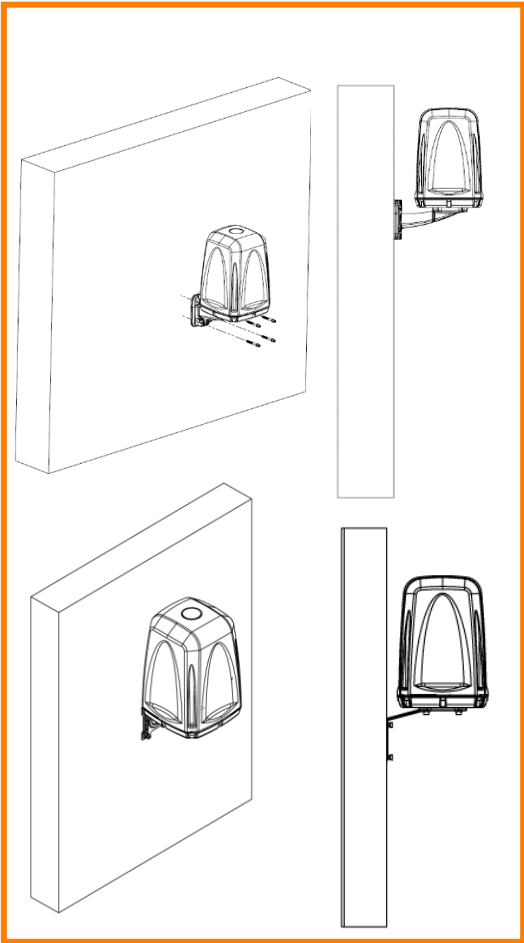
Wall Mount

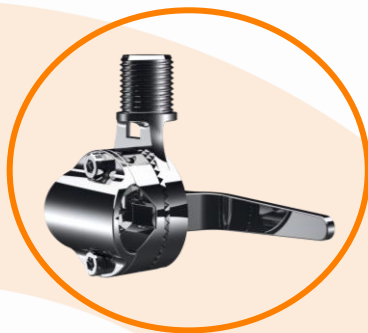Wall mounting using knock-in screws (included)
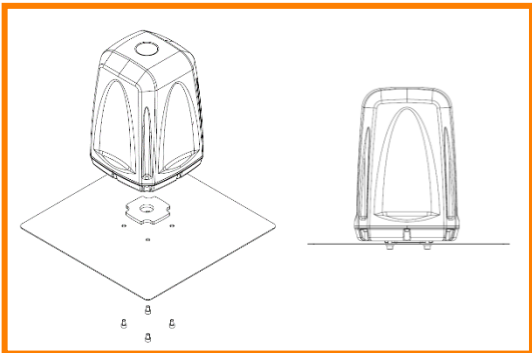
Surface Mount

Surface mounting using a surface mount gasket (included)

EPNT-4

Marine Mount

Surface mounting using optional marine bracket (BRKT-038) and MISC 103 Kit – Not included

---

EPNT-4

Regulatory Compliance: RoHS 2011/65/EU Compliant | ISO 9001:2015
Document version: TS-EPNT-0004-V1 REV 7.0
www.poynting.tech

Additional Accessories

Optional BRKT-38-V1-01 (Not Provided)

Marine ratchet rail mount antenna bracket 1"-14TPI 316 Stainless Steel

---