



Want to combine your World Class Router with our World Class Antennas? .... Now you can!

Our new CPE Enclosure is 4x4 LTE/5G Ready with Wi-Fi



**ePoynt-1**

Omni-directional  
4x4 MIMO  
for urban areas



**ePoynt-2**

Directional + Omni  
4x4 MIMO for rural &  
residential areas

## ePoynt Antenna Enclosure | Commercial Applications

### KEY FEATURES

- Self-contained Uni-directional and omni-directional LTE/5G enclosure that integrates both the antenna and customer router within an outdoor enclosure
- Wideband frequency coverage for LTE & 5G:
  - EPNT-1: 617 – 3800 MHz
  - EPNT-2: 698 – 3800 MHz
- High gain 'directional' & lower gain 'omni' antennas included in different models:
  - EPNT-1: Peak gain of 5 dBi
  - EPNT-2: Peak gain of 11 dBi
- Future proof LTE / 5G Ready antenna with cohabiting Wi-Fi antennas.
- Cross-polarised and MIMO configurations for these enclosures, offering improved throughput and link fading
- Water & dust resistant enclosure (IP65)
- Easy and simple installation of various router types within the ePoynt enclosure
- Negligible coax cable losses between router and antenna, for enhanced RF performance
- Optional SIM-card extenders for easy access
- DC grounded to prevent static build-up discharge from damaging router equipment

### KEY APPLICATION AREAS

- Designed for commercial, industrial, residential, and urban applications, where reliable LTE/5G reception is required
- Ideal for Fixed Wireless Access (FWA) where an outdoor antenna is required for housing CPE electronics in one easy to deploy solution.
- Smart Environmental, Water Systems and Utilities M2M & IoT
- Farming & Agricultural M2M & IoT
- Oil & Gas communication systems
- Municipal & Government systems
- Repeaters & coverage enhancement amplifiers
- Ports, harbours, container, and shipping yards
- Open pit mining





## Product Overview

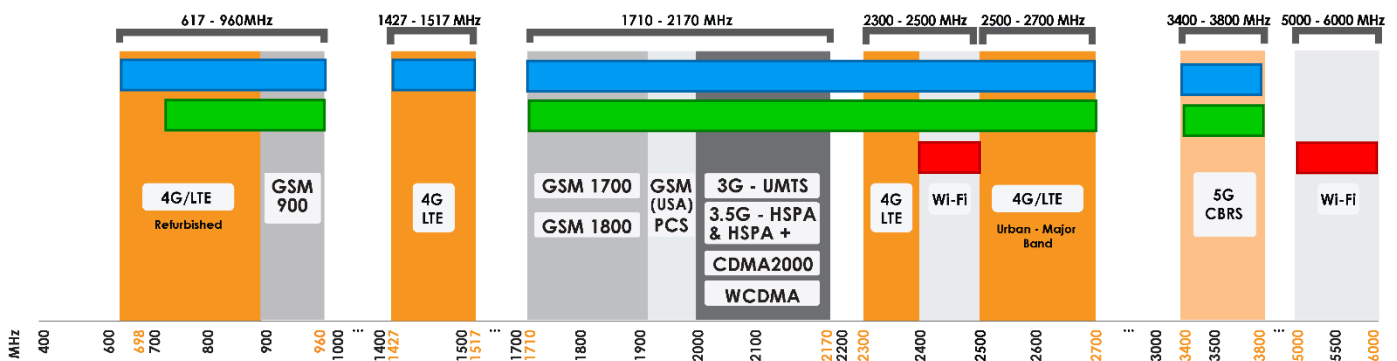
Poynting Antennas introduces its all-new antenna enclosure range, known as the ePoynt series. The ePoynt enclosures are designed to fit a variety of router modules, transforming the antenna enclosure into a Customer Premises Equipment (CPE) - just add your own LTE/5G router. Poynting's new antenna enclosures will be known as the ePoynt-1, which will be an omni-directional antenna enclosure, as well as the ePoynt-2 which will be a uni-directional antenna enclosure.

The antennas used within the ePoynt series will include Poynting's renowned 5G antenna technology. The ePoynt-1 (EPNT-1) combines our cross-polarised omni-directional antennas for enhanced performance in built-up areas where there are several base stations close by, but where higher stability and throughput is required due to its enhanced MIMO configuration. The EPNT-1 includes four cross-polarised cellular antennas, making it ideal for 4x4 MIMO or dual 2x2 MIMO routers. The antennas offer wideband coverage from 617 – 3800 MHz, making it ideal for LTE & 5G implementation with a peak gain of 4 dBi. This antenna also includes two dual-band Wi-Fi antennas that cover the 2.4 GHz and 5 -6 GHz Wi-Fi bands for 2x2 MIMO.

The ePoynt-2 (EPNT-2) antenna enclosure will be using our world renowned Artificial Magnetic Conductor (AMC) technology from our XPOL-2-5G antenna. Providing a cross-polarised, high gain, uni-directional antenna that offers wideband coverage from 698 – 3800 MHz, making it ideal for LTE & 5G implementations in industrial, sub-urban and rural areas where cellular base stations are wide-spread. with. The EPNT-2 contains four cross-polarised cellular antennas, with two uni-directional antennas offering a peak gain of 11 dBi and two omni-directional antennas from the abovementioned ePoynt-1, making it ideal for 4x4 MIMO or dual 2x2 MIMO routers. The EPNT-2 also includes two dual-band Wi-Fi antennas that cover the 2.4 GHz and 5 -6 GHz Wi-Fi bands for 2x2 MIMO.

The antenna configuration in the EPNT-1 & EPNT-2 include multiple antennas for MIMO which are cross-polarised for improved diversity and decorrelated from an RF perspective. This helps to improve signal fading, improves link stability, and enhances throughput of the system. The 4x4 antennas can be used in dual 2x2 MIMO configuration where two radio modules are implemented, either for hardware redundancy or for binding different networks for superior link availability.

The cellular frequency bands supported by the antennas are illustrated in the following graph.



**Indicates the LTE/5G frequency bands the EPNT-1 supports**

**Indicates the LTE/5G frequency bands the EPNT-2 supports**

**Indicates the Wi-Fi frequency bands the EPNT-1 & EPNT-2 supports**

### ePoynt Antenna Series

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 Revised: May 2021



Regulatory Compliance: RoHS 2011/65/EU Compliant | ISO 9001:2015

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The installation of the router within the enclosure has been made easy and simple for any customer. The combination of the external antenna with the customer supplied router within an integrated enclosure results in a self-contained unit. The ePoynt series will offer ultra-low losses between the router and the antenna due to short fly leads. Meaning that the maximum RF signal is transferred between the network base station and the router. This will result in maximum throughput, with lower radio signal fading, and enhanced connection reliability. The radiation patterns of each of the ePoynt antenna enclosures are exceptionally well controlled, further enhancing the performance of the router. This is an important factor for a stable connection on LTE and future 5G cellular technologies, where they rely on capacity enhancing features such as carrier aggregation to provide the best possible reception over multiple frequency bands.

The EPNT-1 & EPNT-2 will come standard in the exact same enclosure, giving it an overall size of 264 x 260 x 168 mm<sup>3</sup>. The enclosure has a rugged design and offers an IP65 rating, making the antenna weatherproof and waterproof. This makes the antenna suitable for outdoor mounting and ensuring that the antenna will be able to withstand harsh environmental conditions. The UV stable ASA radome material used for the antenna enclosure offers protection against highly corrosive environments, which includes chemical and toxic environments. The EPNT-1 & EPNT-2 enclosures can accommodate routers with dimension up to 185 mm x 145 mm x 45 mm. This will give the customer adequate space to install the router of their choice.

The antenna enclosure comes standard with a mounting bracket and knock-in screws that can be used for a variety of mounting options. The antenna can be wall or pole mounted to be used as an outdoor antenna for easy installation, thanks to the improved enclosure design. The antenna can also be exterior window mounted, with additional window suckers for this purpose. The antenna complies with the relevant CE and RoHS standards as stated in our technical sheets. The antenna is also rated for temperatures from -40°C to +70°C and will survive winds of up to 220 km/h with an impact resistance rating of IK 08.

The ePoynt antenna enclosure may be fitted with optional SIM-card extenders (ADPT-10) to help customers with easy access. Optional external antenna ports can also be added for improved performance and versatility but may require a minimum order quantity (MOQ).

Poynting Antennas are well known for providing future proof antennas and the new ePoynt series is no different. We plan to release the new antenna at the end of April/beginning of May 2021, with all the related specifications and information available at launch. Orders will be possible from May 2021. Please keep an eye out for the launch of the new ePoynt series.



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## Mounting Options



### Pole Mount

Pole mounting with pipe clamp (included)



### Wall Mount

Wall mounting using knock-in screws (included)



### Window Mount

Window mounting used with window suckers (included. Ideal for temporary mounting)

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