



FUTUREPROOF INNOVATIVE ANTENNAS



INDUSTRY GUIDE

Mobility

2023

A summarised technical overview for various antennas in our Mobility range

POYNTING

COMPANY OVERVIEW

THE COMPANY

Poynting Antennas designs, manufactures and sells cellular antenna products and related equipment mainly to the telecommunications, broadcasting and related industries.

Established in 1990, Poynting has grown to become one of the leading antenna manufacturers in South Africa.

POYNTING exists for advancing antenna applications: its name is derived from the Poynting vector, a directional measure of energy in an electromagnetic field.

POYNTING was founded on the deep knowledge and understanding of the principles of electromagnetics, RF propagation, antenna design and development.

POYNTING employees include graduate as well as professionally registered engineers with PhD doctorate level expert knowledge of the technology and the industry. Poynting has a legacy of innovative design and delivery with customers and partners worldwide.

FOOTPRINT

Apart from South Africa, roughly 80% of total sales are International with the main markets being Europe, USA, Canada and Australia. International sales are fulfilled through long-standing distribution partners.

COMMITMENT TO QUALITY

Poynting Antennas (Pty) Ltd is dedicated to ensure that its products and services fully meet the requirements of its customers at all times.

POYNTING has a legacy of innovation, design and fulfilment, taking pride in its solid ethical approach. Innovation and creative independence, team spirit and continual learning ensures the organisation can respond to challenges with agility.

POYNTING

INNOVATION

POYNTING holds extensive Intellectual Property (IP) with over 50 registered designs, patents and trademarks filed to differentiate our products from competitive offerings. POYNTING R&D is constantly on the edge of novel innovation.

OPERATIONS

With production facilities in Samrand, South Africa (for specialised and unique products), POYNTING has established satellite manufacturing facilities in Shenzhen China (90% of all antenna productions) with strict quality and manufacturing metrics to ensure the integrity of product performance. International logistics and high volume supply are further streamlined from Shenzhen, China.

INTERNATIONAL SALES AND BUSINESS DEVELOPMENT

POYNTING has embarked on a long term strategy to expand its reach into the international arena. POYNTING opened its office with full representation in Germany focusing on deepening the approach in Europe, Scandinavia and Eastern Europe.

In April 2021 we opened offices and a warehouse in the USA and with this expansion POYNTING will be able to accelerate our growth and take on the huge demand for broadband antennas in the region.

POYNTING is continuously improving – a careful and selective approach for growth in new markets and regions. We seek to promote our products and solutions worldwide and therefore seek distributors in regions where our market share is still small. Servicing new customers better, expanding the business in “undiscovered” regions with new and exciting products.

POYNTING - BEYOND A CONNECTED LIFE

TRANSPORT & MOBILITY

POYNTING's antenna solutions for transport and mobility will ensure a stable reliable and consistent connection of your vehicle with the cellular or Wi-Fi network.

Our range of mobility antennas is the best choice for a wide variety of vehicles that range like:

- Recreational vehicles (e.g., Motorhomes, RVs, Campervans and Caravans)
- Buses and Coaches (Regional, City Busses and Luxury Coaches)
- Emergency Service vehicles (Police, Ambulance and Fire)
- Trucks and trailers.

Reliable communication systems are essential whilst on the road. POYNTING Antennas ensure fast and efficient data transmission whether for, telemetry, video streaming, on the spot advertising, communications, and internet access for passengers. It also allows for remote monitoring of in vehicle installations. Wireless connectivity is secured through multi-functional high-performance antennas (optionally with GPS/Glonass positioning antennas) through 4G/5G Cellular communications.

WHAT DO WE DO AT POYNTING?

Every day we challenge ourselves to make our antenna solutions capable of handling these frequent advancements and software updates in wireless technologies.

In this sense, all our PUCK Series Antennas and MIMO-3-V2 Series Antennas are now updated with the new version of e-Mark E1 ECE R10v6 certification. Another milestone reached for our partners to have products compatible with wireless technology updates and in accordance with the EU regulations.

POYNTING's mobility antennas are E-Mark certified which proves that our antennas comply with the EU/ECE (Economic Commission for Europe) regulations for the mobility and automotive market.

We recommend using the larger antennas for heavy internet traffic users. The MIMO-3-V2 series are performing extremely well in remote areas and seldom will use roaming facilities. The PUCK-Series are compact and very efficient and through the unique radiation pattern design patented by POYNTING offer remarkable and unbeaten performance in a wide variety of landscapes, towns, and cities.

Our mobility range of antennas are designed for discreet installation on the vehicle roof, it not only looks good, but also withstands the harsh outdoor conditions experienced on the road. They are tested and proven.

Additionally, the cables we use in these antennas are all certified for ECE-R 118.2, to ensure cables safe environment with respect to fire and safety in coaches and buses.

They are also IK10 and IP69K rated, and which means they are robust, vandal proof and protected against water ingress.

MIMO-3



Secondary Industry: Mining & Tunnelling; IoT, M2M & Smart Meters

Frequency:	410-470; 698-960; 1710-2700; 3400-3800 MHz; 5000-6000 MHz
Max Gain:	6dBi
Radiation Pattern:	Omni-Directional
MIMO:	2X2 MIMO; 4X4 MIMO
Size (LxWxD):	253mm x 144mm x 128mm

variants

MIMO-3-12	MIMO-3-13	MIMO-3-14
2-in-1 Antenna 2 x LTE;	3-in-1 Antenna 2 x LTE; 1 x GPS Glonass	5-in-1 Antenna 4 x LTE; 1 x GPS Glonass
410-470, 698-960, 1710-2700, 3400-3800, 5000-6000 MHz		
6.0dBi - Omni Directional (2x2 MIMO; 4x4 MIMO)		

MIMO-3



Secondary Industry: Mining & Tunnelling; IoT, M2M & Smart Meters

Frequency:	410-470; 698-960; 1710-2700; 3400-3800 MHz; 5000-6000 MHz
Max Gain:	6dBi
Radiation Pattern:	Omni-Directional
MIMO:	2X2 MIMO; 4X4 MIMO
Size (LxWxD):	253mm x 144mm x 128mm

variants

MIMO-3-15	MIMO-3-17
5-in-1 Antenna 2 x LTE; 2 x Wi-Fi; 1 x GPS Glonass	7-in-1 Antenna 4 x LTE; 2 x Wi-Fi; 1 x GPS Glonass
410-470, 698-960, 1710-2700, 3400-3800, 5000-6000 MHz	
6.0dBi - Omni Directional (2x2 MIMO; 4x4 MIMO)	

OMNI-510



Secondary Industry: Commercial & Industrial; Urban & Rural; Mining & Tunnelling

Frequency:	698-960; 1710-2170; 2300-2700 MHz
Max Gain:	2dBi
Radiation Pattern:	Omni-Directional
MIMO:	SISO
Size (LxWxD):	135mm x 20mm x 10mm

PUCK-5



Secondary Industry: Marine & Coastal; Commercial & Industrial; Mining & Tunnelling; IoT, M2M & Smart Meters; Farming & Agricultural

Frequency:	698-960; 1710-2700; 3200-3800; 5000-6000 MHz
Max Gain:	7.5dBi
Radiation Pattern:	Omni-Directional
MIMO:	2X2 MIMO - 5-in-1 Antenna: 2 x LTE, 2 x Wi-Fi, 1 x GPS
Size (LxWxD):	Ø99.3mm x 36mm

PUCK-2



Secondary Industry: Marine & Coastal; Commercial & Industrial; Mining & Tunnelling; IoT, M2M & Smart Meters; Farming & Agricultural

Frequency:	698-960; 1710-2700; 3200-3800 MHz
Max Gain:	6dBi
Radiation Pattern:	Omni-Directional
MIMO:	2X2 MIMO - 2-in-1 Antenna: 2 x LTE
Size (LxWxD):	Ø99.3mm x 36mm

PUCK-12



Secondary Industry: Marine & Coastal; Commercial & Industrial; Mining & Tunnelling; IoT, M2M & Smart Meters; Farming & Agricultural

Frequency:	2400-2500; 5000-6000 MHz
Max Gain:	7.5dBi Wi-Fi
Radiation Pattern:	Omni-Directional
MIMO:	2X2 MIMO - 2-in-1 Antenna: 2 x Wi-Fi
Size (LxWxD):	Ø99.3mm x 36mm

PUCK-4

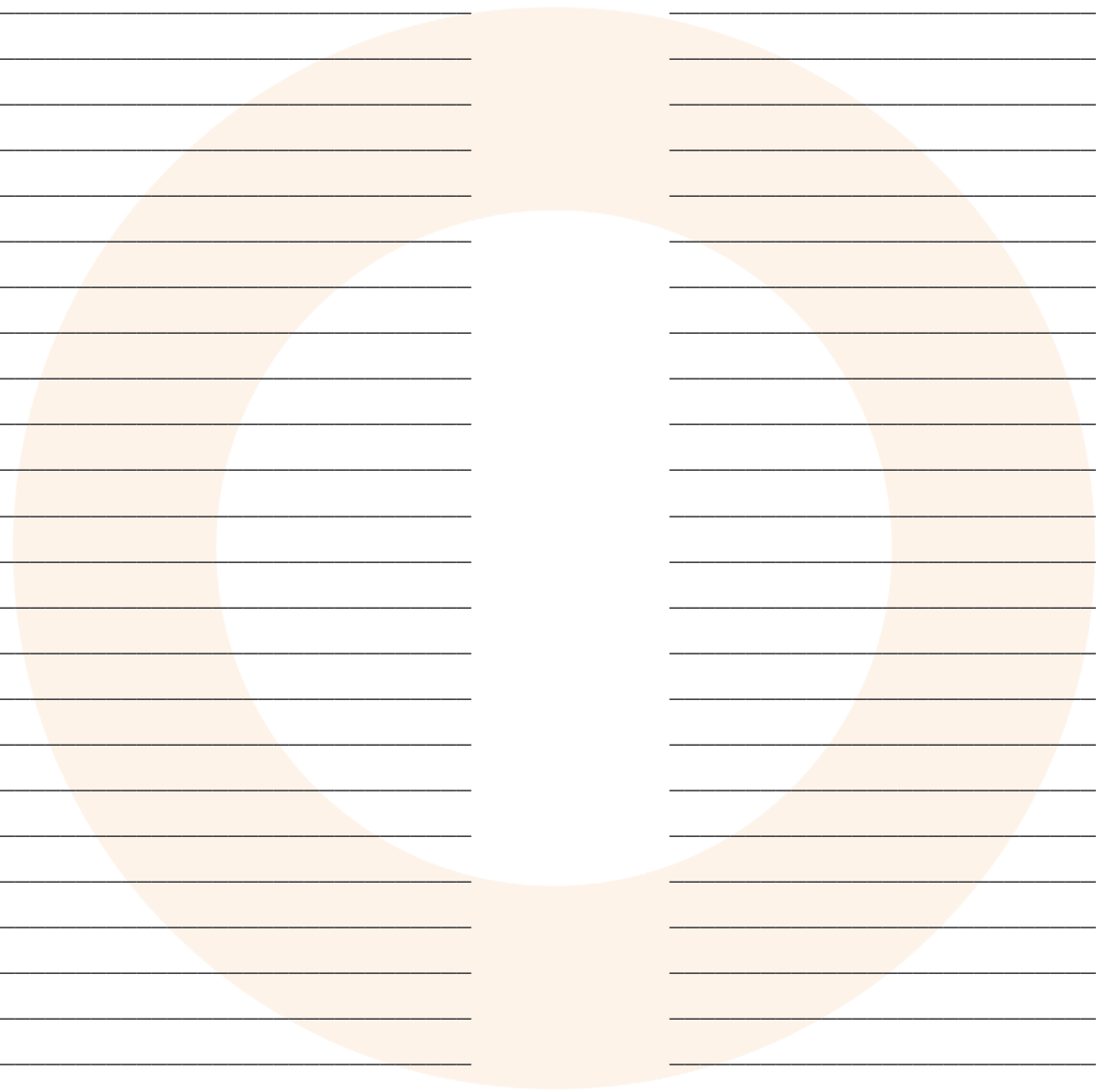


Secondary Industry: Marine & Coastal; Commercial & Industrial; Mining & Tunnelling; IoT, M2M & Smart Meters; Farming & Agricultural

Frequency:	698-960; 1710-2700; 3200-3800 MHz
Max Gain:	6dBi
Radiation Pattern:	Omni-Directional
MIMO:	2X2 MIMO - 3-in-1 Antenna: 2 x LTE, 1 x GPS
Size (LxWxD):	Ø99.3mm x 36mm

NOTES

NOTES



Europe

Germany

Regus Business Center Neue Messe Riem,
Kronstadter Straße 4, 81677 München, Germany

Customer Service:

+49 89 7453 9002

General Enquiries:

sales-europe@poynting.tech

Distributor for Slovenia

MASTERLINE d.o.o.

Ljubljana, Slovenija

T: +386 1 530-27-50

E: info@poyntingshop.si

www.poyntingshop.si