Poynting
Making wireless happen

LTE: 698MHz -960MHz, 1710MHz – 2700MHz, 3200MHz-3800MHz. **WiFi:** Dualband 2.4GHz & 5GHz, GPS/GLONASS
Peak Gain: 6 dBi (LTE) | 7.5 dBi (WiFi) *(based on PUCK-0005)*

Includes 3.2 – 3.8 GHz CBRS Band

APPLICATION AREAS
Urban
Rural/Farm
Marine
Transportation
IoT/Metering

	Description	LTE	WiFi DUALBAND	GPS	Expected Availability	MOQ
PUCK-0001	Puck Antenna: LTE (SISO)	✓			January 19	-
PUCK-0002	Puck Antenna: 2-in-1 | LTE (MIMO)	2x2 MIMO			November 18	-
PUCK-0004	Puck Antenna: 3-in-1 | LTE (MIMO) & GPS	2x2 MIMO		✓	November 18	-
PUCK-0005	Puck Antenna: 5-in-1 | LTE (MIMO), WiFi (MIMO) & GPS	2x2 MIMO	2x2 MIMO	✓	November 18	-
PUCK-0008	Puck Antenna: LTE (MIMO) & WiFi (SISO)	2x2 MIMO	✓		TBD	200
PUCK-0010	Puck Antenna: WiFi (2x2 MIMO), GPS		2x2 MIMO	✓	TBD	200
PUCK-0012	Puck Antenna: WiFi (2x2 MIMO)		2x2 MIMO		November 18	-
GPS-0001-V2	GPS Only, in the same housing as the PUCK			✓	December 18	-

PUCK Series | Small Size & Low-Profile IoT/M2M Antennas

KEY FEATURES

- Small & Low-Profile (Ø 100mm x h 36mm)
- Waterproof & Dustproof (complies with IP68)
- Highly Ruggedised (complies with IK10)
- Fire Resistant (certified with ECE-R 118.02)
- Easy installation; multi implementation options (as standard)
  - Spigot Mount
  - Magnetic Mount
  - Double Sided Tape Mount
  - Bracket Mount
- UV Stable Enclosure
- Wideband - covers wide frequency band
- Ground plane independent – performs consistently with and without a ground plane.
- 5G Ready; includes 3.2GHz to 3.8GHz CBRS Band

KEY IoT/M2M APPLICATION AREAS

- Smart Utilities: Smart Power, Gas & Water Metering
- Smart Buildings: Climate control, access control, security, irrigation
- Digital Signage
- Smart Environmental & Water Systems
- Warehouses & Logistic systems
- Industrial factory automation, robotic machinery and other M2M systems
- Farming & Agricultural M2M & IoT
- Transport (Busses, Utility & Public Safety)
- Marine: small boats, yachts near to coastlines or inner waters, buoy, inside the cabin
- Mining Vehicles & Machinery comms, telemetry and automation (M2M & IoT)

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Product Specifications may change without prior notice
Revised: November 2018

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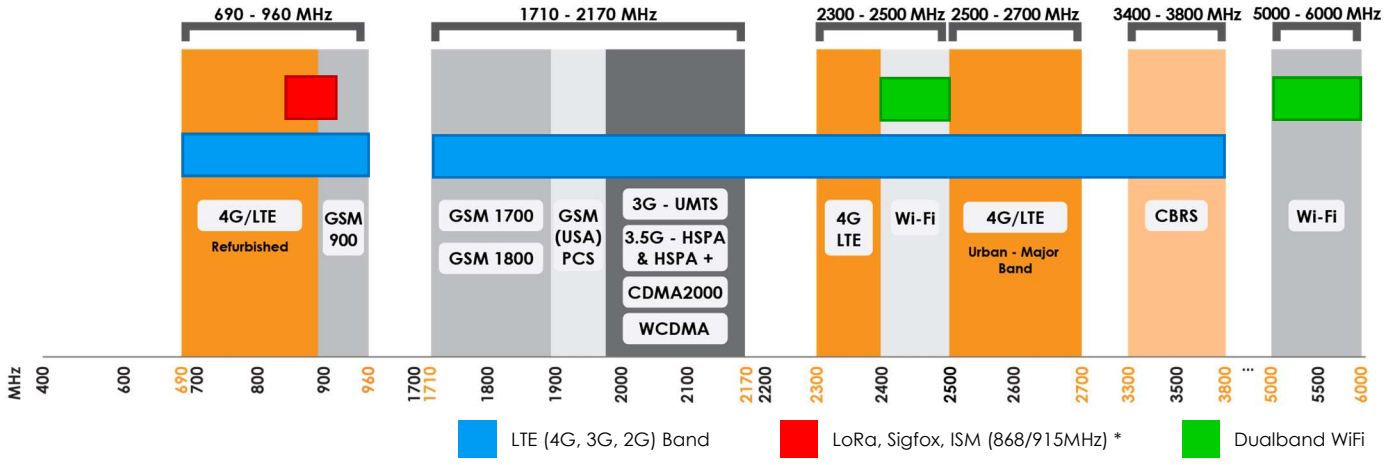
Product Overview

Poynting's new PUCK antenna range offers a small profile antenna for use in the IoT/M2M, Smart Meter, Smart Utilities and Transportation markets. This antenna range offers a variety of options for MIMO LTE, MIMO WiFi and GPS/GLONASS within the same enclosure, while keeping implementation as simple as possible with its many mounting options. Due to excellence in engineering and a solid design, this antenna provides exceptional performance for its small size.

The flagship of this range, the 5-in-1 antenna, boasts 2x2 MIMO LTE, 2x2 MIMO WiFi (Dualband 2.4GHz & 5GHz) and GPS/GLONASS. Other variants offer a subset of this configuration. The PUCK range includes a 4x4 WiFi only variant and a GPS/GLONASS only variant, namely the GPS-1V2.

The 2x Cellular MIMO antennas (for 2G/3G/4G) cover the 698MHz to 2700MHz band, which includes the most popular international LTE bands. The antenna provides two separate dual-band Wi-Fi antennas, providing concurrent 2.4GHz and 5GHz on each antenna, capable of 802.11n, 802.11ac and the new 802.11ax with 2x2 MIMO. The fifth antenna is a high performance active GPS/GLONASS system operating at temperatures as low as -40°C.



The PUCK series exceeds the performance of most competitors of the same size, due to the attention to the design of this high-performance antenna. The radiation patterns of all radiating elements provide an excellent balance between omnidirectionality, pattern diversity and good radiation abilities at the desired elevation, which is often overlooked in such a small size antenna.

This antenna provides better performance than many competitor products of similar size, especially at the higher frequency bands, where performance is critical for LTE throughput and connection stability.

* LoRa, Sigfox, ISM (868/915MHz) to be offered with the PUCK-1 and other LTE capable variants.

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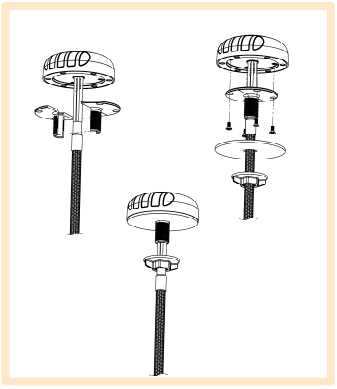
Mounting Possibilities – included as standard

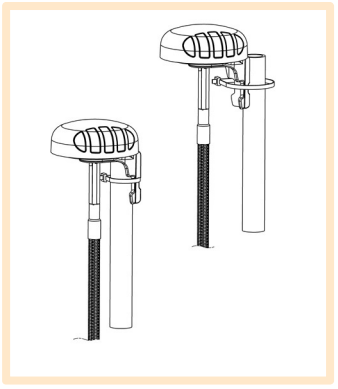
Poynting's new PUCK antenna range provides easy installation with the multiple mounting options. This includes as standard:

- Spigot Mount - two different lengths included (40mm & 80mm)
- Vertical Pole mount (inner & outer mounting for smaller and larger poles)
- Horizontal Pole Mount (e.g. marine rails)
- Magnetic Mount
- Surface Mount (Double Sided Tape)
- Wall Mount



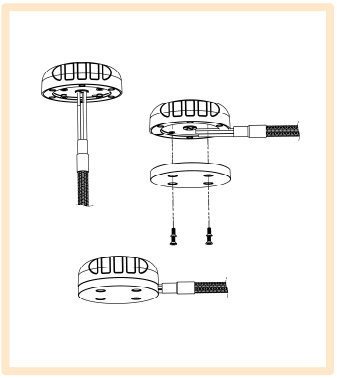
Spigot Mount

Removable 40mm & 80mm threaded spigot (included)



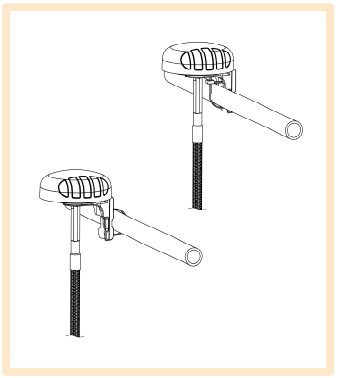
Vertical Pole Mount

Pole/Wall Mounting bracket (included)



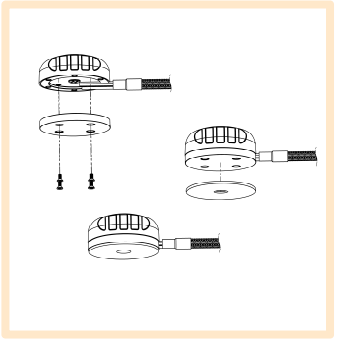
Magnetic Mount

Magnetic Base (included)



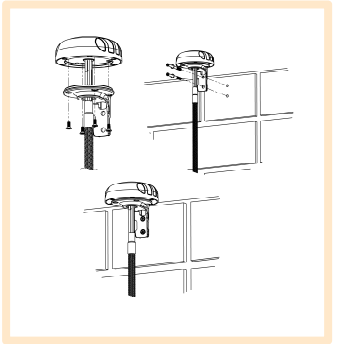
Horizontal Pole Mount

Pole/Wall Mounting bracket (included)



Surface Mount

Adhesive Surface Mounting (included) or can also be directly secured with longer M4 bolts (not included) to the female threaded inserts located in the antenna base



Wall Mount

Pole/Wall Mounting bracket (included)

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Dimension Drawings

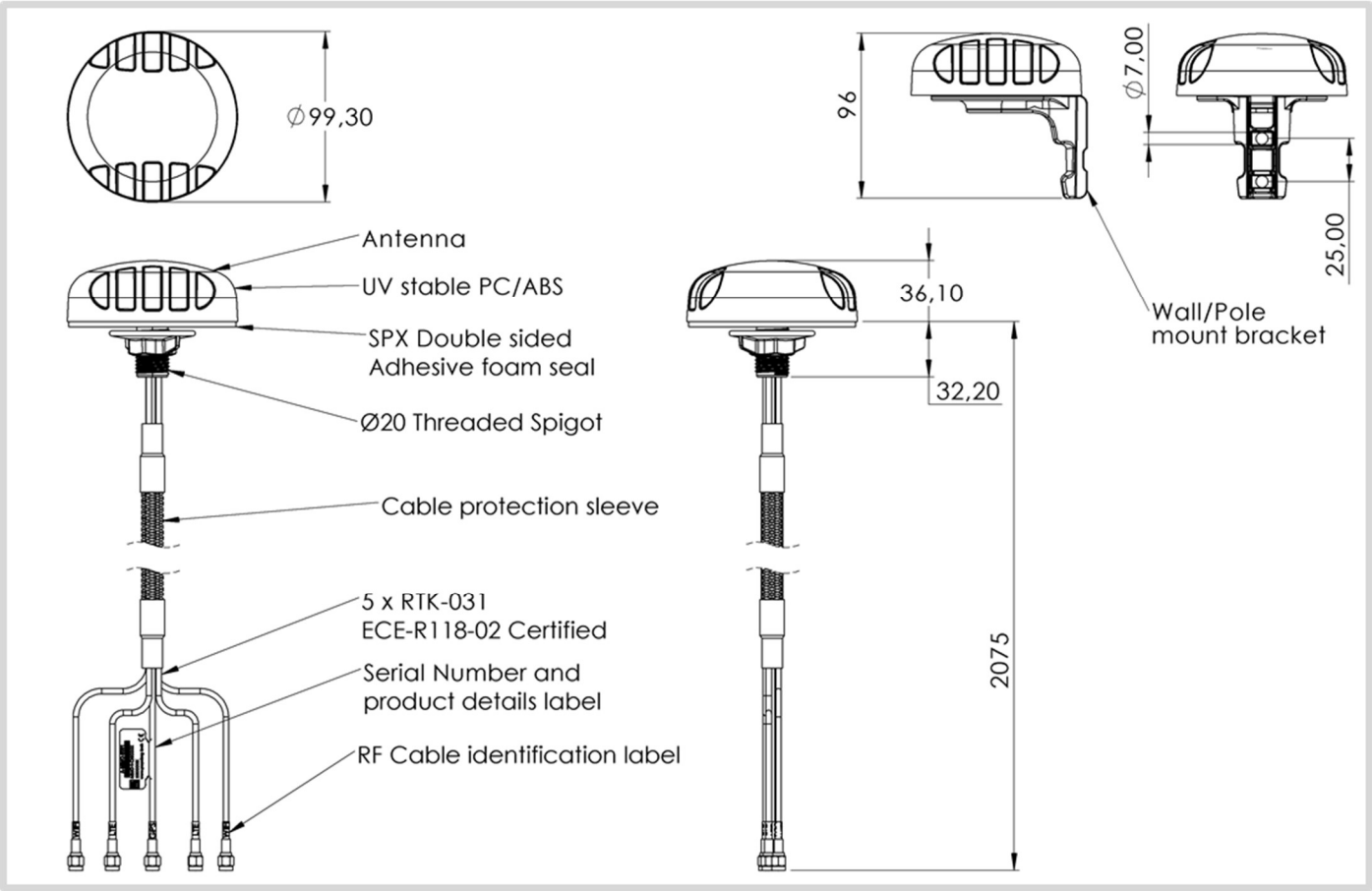

Figure 1 Technical Drawing of the PUCK (PUCK-0005 used in this diagram)

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