

Item no.: A-PUCK-0007-V1-01

## PUCK-7 - A-PUCK-0007-V1-01 - 4-in-1 Transportation & IoT/M2M Antenna

from **93,17 EUR**

Item no.: A-PUCK-0007-V1-01  
 shipping weight: 0.10 kg  
 Manufacturer: Poynting



### Product Description

#### A-PUCK-0007-V1-01 - 4-in-1 Transportation & IoT/M2M Antenna

Poynting's new PUCK range offers a small profile antenna for use in the IoT/M2M, Smart Meter, Smart Utilities, Transportation, Marine and the Agricultural/Farming markets. The PUCK-7 consists of a 4-in-1 antenna system within a single housing, featuring 2x2 MIMO LTE and 2x2 MIMO Wi-Fi (dual-band 2.4 GHz & 5 GHz). The 2x cellular MIMO antennas (for 2G/3G/4G) cover the 698 MHz to 3800 MHz band which includes the most popular international LTE bands. The antenna provides two separate dual-band Wi-Fi antennas offering concurrent 2.4 GHz and 5 GHz bands, capable of 802.11n and 802.11ac/ax with 2x2 MIMO. The PUCK exceeds the performance of many competitors due to the attention to 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. Despite its small size, this antenna provides excellent performance especially at the higher frequency bands, where performance is critical for LTE throughput and connection stability. This antenna is designed so that both the LTE ports are connected to the router/device to ensure the best performance. Please see other derivatives of the PUCK range that are more suitable for a SISO application.

#### Electrical Specifications - Cellular

- Frequency bands: 698-960 MHz; 1710-2700 MHz; 3200-3800 MHz
- Gain (max.) port 1 & 2: -1 dBi (at) 698-960 MHz; 6 dBi (at) 1710-2700 MHz; 6 dBi (at) 3200-3800 MHz
- VSWR port 1 & 2: ?2.5:1 over 85% of the band
- Feed power handling: 10 W
- Input impedance: 50 Ohm (nominal)
- Polarisation: Linear vertical
- Coax cable loss: 0.56 dB/m (at) 900 MHz; 0.65 dB/m (at) 1500 MHz; 0.72 dB/m (at) 1800 MHz; 1.2 dB/m (at) 3000 MHz
- DC short: Yes

#### Wi-Fi Electrical Specifications

- Frequency: 2400-2500 MHz; 5000-6000 MHz
- Gain (max.) port 1 & 2: 5 dBi (at) 2400-2500 MHz; 7.5 dBi (at) 5000-6000 MHz
- VSWR port 1 & 2: ?2.5:1 over 95% of the band
- Feed power handling: 10 W
- Nominal input impedance: 50 Ohm (nominal)
- Polarisation: Linear vertical
- Coax cable loss: 0.88 dB/m (at) 2400 MHz; 1.65 dB/m (at) 5800 MHz
- Path to ground: Yes

#### Product Box Contents

- Antenna: A-PUCK-0007-V1-01
- Mounting bracket: 20 threaded spigots (up to 60 mm clamping thickness), adhesive surface mounting & magnetic mount
- Adapters: 2x RPSMA (m) to SMA (f)

#### Mechanical Specifications

- Product dimensions 99.3 x 36 mm
- Packaged dimensions: 150 x 150 x 120mm
- Weight: 0.476 kg
- Packaged weight: 0.607 kg
- Radome material: PC+ABS (Halogen free)
- Radome colour: Black
- Mounting type: 20 threaded spigot, pole, wall, surface and magnetic mount

#### Environmental Specifications, Certification & Approvals

- Wind survival: ?220 km/h
- Temperature range (operating): -40°C to +80°C
- Environmental conditions: Outdoor/indoor
- Water ingress protection ratio/standard: IP 68 – 30 minutes up to 1.5 m
- Salt spray: MIL-STD 810F/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

#### Specifications

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