

Item no.: A-PUCK-0005-V1-01

A-PUCK-0005-V1-01 - Robust, Multifunctional 5 in 1 Ultra Wide Band Omni-Directional PUCK Antenna

98,60 EUR

Item no.: A-PUCK-0005-V1-01
shipping weight: 0.10 kg
Manufacturer: Poynting



Product Description

Poynting A-PUCK-0005-V1-01 - Robust, Multifunctional 5 in 1 Ultra Wide Band Omni-Directional PUCK Antenna, 2x LTE 698 - 3800 MHz + 1x Dual-Band Wi-Fi

The Poynting PUCK-5 antenna offers a small profile antenna for use in the IoT/M2M, Smart Meter, Smart Utilities and Transportation markets. This 5-in-1 antenna features 2x2 MIMO LTE, 2x2 MIMO Wi-Fi (dual-band 2.4 & 5 GHz) and GPS/GLONASS in the same package, while keeping implementation as simple as possible with its many mounting options.

The 2x cellular MIMO antennas (for 2G/3G/4G) cover the 698 to 2700 MHz band, which includes the most popular international LTE bands. The antenna features 2x dual-band Wi-Fi antennas providing 2.4 and 5 GHz simultaneously on each antenna supporting 802.11n, 802.11ac and the new 802.11ax with 2x2 MIMO. The fifth antenna is a powerful active GPS/GLONASS system that operates at temperatures as low as -40°C. The new Poynting PUCK antenna series offers easy installation with a wide range of mounting options. Features:

- Small & low-profile (100 mm x h 36 mm)
- Careful mechanical design provides ruggedness, corrosion, water, dust resistance (IP68)
- Fire resistant (complies with ECE-R 118.02)
- UV stable enclosure
- Ground plane independent –performs consistently with and without a ground plane
- 5G ready; includes 3.2 to 3.8 GHz CBRS Band
- Easy installation; multi implementation options (as standard): Spigot Mount, Magnetic Mount, Adhesive Tape Mount, Bracket Mount

Application Areas:

- Smart Utilities: Smart Power, Gas & Water Metering
- Smart Buildings: Climate control, access control, security, irrigation
- Digital Signage
- Warehouses & Logistic systems
- Industrial factory automation, robotic machinery and other M2M systems
- Transport (Busses, Utility & Public Safety)
- Mining Vehicles & Machinery (M2M & IoT)

Electrical Specifications-Cellular

- Frequency bands: 698-960 MHz; 1710-2700 MHz; 3200-3800 MHz
- Gain (max): 6 dBi
- 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: 0.45 dB/m (at) 900 MHz; 0.71 dB/m (at) 2000 MHz; 0.79 dB/m (at) 2500 MHz; 0.9 dB/m (at) 3000 MHz
- DC short: Yes

Electrical Specifications Wi-Fi

- Frequency: 2400-2500 MHz; 5000–6000 MHz
- Gain (max): 7 dBi
- VSWR: ?2:1 over 95% of the band
- Feed power handling: 10 W
- Nominal input impedance: 50 Ohm (nominal)
- Polarisation: Linear vertical
- Coax cable loss: 0.45 dB/m (at) 900 MHz; 0.71 dB/m (at) 2000 MHz; 0.79 dB/m (at) 2500 MHz; 0.9 dB/m (at) 3000 MHz
- Path to ground: Yes

Electrical Specifications GPS/Glonass Antenna

- Frequency range (GPS): 1575.42/1600 MHz
- Gain (max): 21+/-2 dBi
- VSWR:
- DC voltage: 2.7-3.3 V
- DC current: 5 - 15 mA
- Noise figure: =1.5 dB
- Nominal impedance: 50 Ohm
- Polarisation: RHCP
- Filter out band attenuation: 12 dB min f0+50 MHz, 16 dBi min f0-50 MHz
- Cable: RTK-031
- Connector: SMA male
- Voltage: 2.7 -3.3 V
- Max. power-W: 50

Mechanical Specifications

- Product dimensions: 99.3 x 36 mm
- Packaged dimensions: 150 x 150 x 120 mm
- Weight: 0.426 kg
- Packaged weight: 0.610 kg
- Radome material: PC+ ABS (halogen free)
- Radome colour: Pantone Black
- Mounting type: 20 threaded spigot, pole, wall, surface and magnetic mount

Environmental Specifications, Certification & Approvals

- Wind survival:
- Temperature range (operating): -40°C to +80°C
- Environmental conditions: Outdoor/indoor
- Water ingress protection ratio/standard: IP 68
- 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
- Flammability rating: UL 94-HB, ECE-R118.02 certified cables
- Impact resistance: IK 10
- Product safety & environmental: Complies with CE, EN, CSA, RoHS and IEC standards, E-mark certified

Specifications

**Scan this QR code to
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All details, up-to-date
prices and availability

