Item no.: A-OMNI-0510-V1-02

OMNI-510-2 - A-OMNI-0510-V1-02 - Omnidirectional Wideband Ultra Low Profile Antenna

16,¹² EUR

16,^{12} EUR

Item no.: A-OMNI-0510-V1-02
shipping weight: 0.20 kg
Manufacturer: Poynting

📄 Product Description

Poynting A-OMNI-0510-V1-02 - Omnidirectional Wideband Ultra Low Profile Antenna

The OMNI-510-01 antenna is purposefully designed for ultra- low profile requirements such as Smart Meters. This omni-directional antenna is suitable for indoor and outdoor use, typically mounted on the top or side of smart meter boxes. The OMNI-510-01 antenna is designed with installation simplicity in mind, while covering the LTE frequency bands 698 – 2700 MHz.Features

- Omni-directional antenna
- Wideband - covers wide frequency band
- Easy installation, double sided tape or screw-on
- Stylish, but robust design
- Weather resistant

M2M and IoT Application Areas

- Smart utilities: Smart power metering, gas & water metering
- Smart buildings: Climate control, access control, security, irrigation
- Digital signage
- Smart environmental & water systems
- Warehouses & logistic systems
- Industrial factory automation and M2M systems
- Farming & agricultural M2M & IoT

Can be used with the following IoT technologies:

- Zigbee
- Z-Wave
- LoRaWAN
- Sigfox
- Wi-Fi
- Wi-Fi HaLow
- Cellular Bands (LTE/3G/2G), incl. LTE-M/NB-IoT
- Bluetooth

Electrical Specifications

- Frequency band 1: 698 - 960 MHz
- Frequency band 2: 1710 - 2700 MHz
- Gain (max.): 2 dBi
- VSWR: < 2.5:1 over 90% of the band
- Feed power handling: 10 W
- Input impedance: 50 Ohm (nominal)
- Polarisation: Linear horizontal / vertical (installation dependent)
- 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
- Cable: RTK-031
- SMS-plug
- Cable length: 1 m

Mechanical Specifications

- Product dimensions (L x W x D): 138 x 26 x 10 mm
- Packaging material: Poly bag
- Radome material: TPE (Thermoplastic Elastomer)
- Radome colour: Pantone Black or Cool Gray 1C (TBC)
- Mounting: Adhesive backing or screw mount

Environmental Specifications

- Wind survival: 160 km/h
- Temperature range (operating): -40°C to +75°C
- Environmental conditions: IP68 (excl. connector)
- Operating relative humidity: Up to 98%
- Storage humidity: 5% to 95% non-condensing
- Storage temperature: -40°C to +75°C

📄 Specifications

Scan this QR code to view the product
All details, up-to-date prices and availability