

Item no.: A-MIMO-0003-V2-13

MIMO-3-13 - A-MIMO-0003-V2-13 - 3-in-1 MIMO Antenna, 2x LTE, 1x GPS/Glonass

from **189,07 EUR**

Item no.: A-MIMO-0003-V2-13

shipping weight: 1.40 kg

Manufacturer: Poynting



Product Description

Poynting A-MIMO-0003-V2-13 - 3-in-1 MIMO Antenna, 2x LTE, 1x GPS/Glonass

The MIMO-3-V2-13 consists of a 3-in-1 antenna system within a single housing, providing 2x Cellular and a GPS/GLONASS. This antenna is specifically designed for the transportation and marine industry. The 2x Cellular MIMO antennas (for 2G/3G/4G) covers the contemporary 690MHz to 2700MHz bands, as well as the new emerging LTE and 5G spectrum for 450MHz and 3.5GHz CBRS bands, which is becoming popular across the various international cellular network operators for LTE. This antenna, due to its wide band capabilities, can be used across different operators and technologies and is ready for future cellular technologies such as 5G up to 3.8GHz. The third antenna is a high-performance active GPS/GLONASS system operating down to -40 degrees. The antenna exceeds the performance of most competitors 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 important for this type of antenna, especially for the transportation and marine market. Main applications are for commercial/industrial vehicles, marine, M2M and other IoT systems using a wide range of radio technologies, while remaining future-proof over the wide frequency band offered by this antenna.

Features

- Ultra-wideband 410MHz to 470MHz, 690MHz to 2700MHz and, 3400MHz to 3800MHz bands
- Cleverly designed decorrelated antennas give superior MIMO performance in both Wi-Fi (dual band) and cellular bands
- Above features maintained from 698MHz to 5800MHz in relevant bands, including the 450MHz band
- Careful mechanical design provides ruggedness, corrosion, water, dust resistance (IP68)

Application Areas

- Transport broadband and Wi-Fi distribution, automation and telemetry for Busses, Utility, Trucking & Public Safety vehicles
- Industrial factory automation, robotic machinery and other M2M systems telemetry
- Farming & Agricultural automation such as M2M & IoT
- Broadband cellular to WiFi distribution for Marine / Boats (inland and near coastal vessels)
- Mining Vehicles & Machinery communications, telemetry and automation (M2M & IoT)

Electrical Specifications-Cellular

- Frequency bands: 410-470 MHz; 690-960 MHz; 1710-2700 MHz; 3400-3800 MHz
- Gain (max) Port 1 & 2: 5.8dBi
- VSWR Port 1 & 2: $\approx 2.5:1$
- Feed power handling: 10 W
- Input impedance: 50 Ohm (nominal)
- Polarisation: Linear Vertical
- Coax cable loss: 0.35 dB/m (at) 900 MHz; 0.53 dB/m (at) 2000 MHz; 0.6 dB/m (at) 2500 MHz; 0.72 dB/m (at) 3500 MHz
- Path to Ground: Yes

GPS/Glonass Antenna Electrical Specifications

- Frequency Range (GPS): 1575.42MHz/1600MHz
- Gain (Max): 21+/-2dBi
- VSWR: =1 .5:1
- DC Voltage: 2.7-3.3 VDC Current:5-15mA
- Noise Figure: = 1.5 dB
- Nominal Impedance: 50 Ohm
- Polarisation: RHCP
- Filter Out Band Attenuation: 12dB Min f0+50MHz, 16dBi Min f0-50MHz
- Cable: 0.04 m Micro Cable 1.13
- Connector: SMA male
- Voltage: 2.7 -3.3 V
- Max. Power-W: 50
- Polarisation: 2 x Vertical linear
- Coax cable loss: 0.6 dB/m (at) 2500 MHz; 0.72 dB/m (at) 3500 MHz; 0.981 dB/m(at) 5800 MHz
- Path to Ground: Yes

Coax Cable & Connector Type-GPS

- Cable length: 2m
- Coax cable type: RTK-031
- Connector type: SMA (Male)

Coax Cable & Connector Type-Cellular

- Cable length: 2m
- Coax cable type: Twin HDF 195
- Connector type: SMA (Male)

Mechanical Specifications

- Product dimensions: 253 mm x 128 mm x 144 mm
- Packaged dimensions: 265 mm x 211 mm x 204 mm
- Weight: 1.2 kg
- Packaged weight: 1.31 kg
- Radome material: UV Stable SAN Marine ASA
- Radome color: Brilliant White, Pantone P 179-1 C
- Mounting Type: Spigot, Surface with Magnetic mount option

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
- 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

Specifications

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

