

Item no.: A-MIMO-0003-V2-15

MIMO-3-15 - A-MIMO-0003-V2-15 - 5-in-1 MIMO Antenna, 2x LTE, 2x Wi-Fi, 1x GPS/Glonass

from **236,50 EUR**

Item no.: A-MIMO-0003-V2-15
shipping weight: 1.46 kg
Manufacturer: Poynting



Product Description

Poynting A-MIMO-0003-V2-15 - 5-in-1 MIMO Antenna, 2x LTE, 2x Wi-Fi, 1x GPS/Glonass

The MIMO-3-V2-15 consists of a 5-in-1 antenna system within a single housing, providing 2x Cellular, 2x Wi-Fi 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 antenna provides two separate dual-band Wi-Fi antennas, providing concurrent 2.4GHz and 5GHz on each antenna with 2x2 MIMO capability. The fifth 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)

Specifications

Electrical Specifications-Cellular

Frequency bands:410-470 MHz; 690-960 MHz; 1710-2700 MHz; 400-3800 MHz

Gain (max) Port 1 & 2: 5.8dBi

VSWR Port 1 & 2: =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: YesGPS/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 Ω
Polarisation: RHCP
Filter Out Band Attenuation: 12dB Min f₀+50MHz, 16dB Min f₀-50MHz
Cable: 0.04 m Micro Cable 1.13
Connector: SMA male
Voltage: 2.7 -3.3 V
Max. Power-W: 50Wi-Fi Electrical Specifications
Frequency: 2400-2500 MHz; 5000-6000MHz
Gain (Max): 7dB
iVSWR: $\approx 2.5:1$ over 95% of the band Feed power handling: 10 W
Nominal input impedance: 50 Ω
(nominal)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) Mechanical Specifications
Product dimensions: 253 mm x 128 mm x 144 mm
Packaged dimensions: 265 mm x 211 mm x 204 mm
Weight: 1.36 kg
Packaged weight: 1.46 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:

**Scan this QR code to
view the product**

All details, up-to-date
prices and availability

