

MiMo5GN

Multiband Cellular MiMo Antenna with GNSS

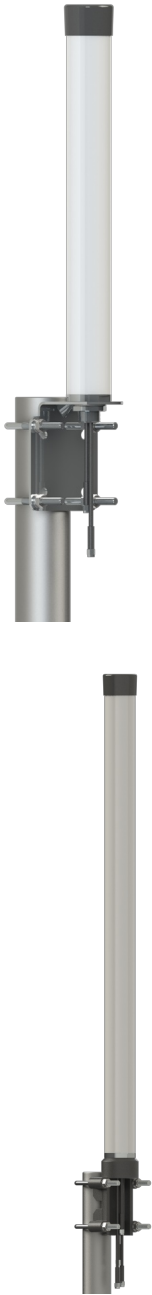
Multiband antenna combining the cellular/mobile GSM(2G), UMTS(3G), LTE(4G), 5G NR(5G), WiFi and GNSS for vessel or land based communication.

- Two versions - 2x2 and 4x4
 - Up to five antenna elements in one enclosure
- Excellent performance, VSWR below 2.5 in 96% of the specified band
- Dedicated active GNSS antenna
- Omni-directional design
- Designed for Maritime use
- Compact and light weight design



ELECTRICAL SPECIFICATIONS

Type	End-Fed Multiband Co-linear MiMo
Frequency	612 - 960 MHz, 1710 - 2170 MHz, 2300 - 2690 MHz, 3300 - 4200 MHz, 4400 - 5000 MHz
Bands	5G NR 600/700/800/900/1800/2100/2600/3500/3700/4900 MHz LTE 700/800/1800/1900/2600 MHz UMTS 700/800/900/2100 MHz GSM 850/900/1800/1900 MHz WiFi 2.4 GHz
Satellite System	GLONASS, GPS, Galileo and BeiDou
Bandwidth	See "FREQUENCY"
Impedance	50 Ohm
VSWR	< 4.0:1 (612-698 MHz) < 3.0:1 (698-960 MHz/1710-2690 MHz) < 2.0:1 (3300-4200 MHz/4400-5000 MHz)
Isolation	> 10 dB
Gain	-1.0 dBd, 1.15 dBi, 2.0 dB (Marine) (612-960 MHz) 1.0 dBd, 3.15 dBi, 4.0 dB (Marine) (1710-2170, 2300-2690 MHz) 2.0 dBd, 4.15 dBi, 5.0 dB (Marine) (3300-4200, 4400-5000 MHz)
Polarisation	Vertical (Celluar), Right Hand Circular (RHC) (GNSS)
Radiation Pattern	Omni-directional
Max. Input Power	10 W (Cellular)
LNA Gain	26 dB (GNSS)
Noise Figure	1.35 dB (GNSS)
Supply Voltage	3.0 - 5.5 VDC (Fed via cable) (GNSS)
Current Consumption, Average	20 mA (GNSS)



Datasheet

MECHANICAL SPECIFICATIONS

Color	White and chrome
Length	MiMo5GN-2: 455 mm MiMo5GN-4: 785 mm (Excluding cables)
Weight	MiMo5GN-2: 580 g MiMo5GN-4: 960 g
Mounting	Integrated 1-14"NF Thread
Mounting Place	On mast or deck (see P/N; 10000-173 & 10000-183)
Materials	UV Protected PC, PTFE, PE, PCB and chromed solid brass
Survival Wind Speed	55 m/s (125 mph)
Operating Temperature	-55 °C to +70 °C (IEC 60068-2-1, IEC 60068-2-2)
Connector	SMA-male (Other types available on request)
Cable	Approx. 1.0 m LTR195 (Cellular) Approx. 1.0 m RG-174/U (GNSS)
Ingress Protection	IP65
Serial No.	On product label

ORDERING INFORMATION

18113-001	MiMo5GN-2 2 x LTR195 + SMA(m) (Cellular) 1 x RG174/U + SMA(m) (GNSS)
18115-001	MiMo5GN-4 4 x LTR195 + SMA(m) (Cellular) 1 x RG174/U + SMA(m) (GNSS)

PACKAGING INFORMATION

Type	In Tube
Size	MiMo5GN-2: Ø60 x 555 MiMo5GN-4: Ø60 x 950

Datasheet

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