



# DUAL BAND GSM-R - GPS ANTENNA

870 ÷ 960 and 1575.42 MHz

BGLI-R

POLOMARCONI.IT

POLOMARCONI offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

TRANSPORT

## Electrical Specifications

### GSM-R BAND

Frequency band (MHz)	870 ÷ 960
Impedance ( $\Omega$ )	50
VSWR	<1.7:1
Continuous Max. Power (W)	30
Polarization	vertical
Gain (dBi)	> 3.4

### SATELLITE NAVIGATION AND GEOLOCALIZATION BAND

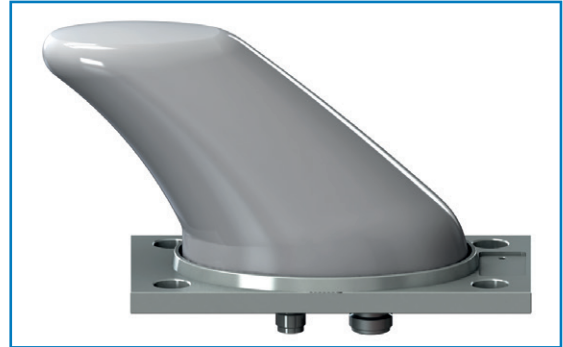
Frequency band (MHz)	1574.42 ÷ 1576.42
Impedance ( $\Omega$ )	50
Polarization	Right Hand Circular Polarization (RHCP)
Gain (dBic)	$\geq 25$ (typical 27), @ $T_0=25^\circ\text{C}$ , $V_{DC}=5\text{V}$
Noise Figure (dB)	$\leq 2.5$ , @ $T_0=25^\circ\text{C}$ , $V_{DC}=5\text{V}$
Operating supply voltage ( $V_{DC}$ )	3.0 ÷ 7.0
Current consumption (mA)	$\leq 35$ , @ $T_0=25^\circ\text{C}$ , $V_{DC}=5\text{V}$



Patent n° 1548873

Antenna for train with protective means against high voltages.

Patent has been used by SNCF and by the most important producers of trains.



## Mechanical Specifications

Connectors	N female for GSM/R TNC female for GPS (SMA female for 3V model)
Dimensions (Height x Width x Depth, mm)	98x80x145
Weight (kg)	0.5
Materials	body Aluminium with SURTEC 650 treatment radome High impact polycarbonate connectors Silver plated brass
Mounting	on metallic surface (600x600mm minimum)



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## Environmental Specifications

**ATMOSPHERIC and CLIMATIC CONDITIONS according to EN 50155 and EN 60068**

**MECHANICAL CONDITIONS according to EN 50155**

**EMC according to EN 50121-3-2**

**HIGH VOLTAGE PROTECTION according to EN 50153 and EN 50124-1**

**DC GROUNDING, HIGH CURRENT PROTECTION according to EN 50153, UIC 758, UIC 533, EN 50388 and EN 50123**

Short-circuit currents flow / time before breaking  
 70 kA / 5 ms – 40 kA / 100 ms (DC)  
 31.5 kA / 10 ms – 15 kA / 100 ms (AC)

**RoHS 2011/65/EU compliant**

**FLAMMABILITY RATING according to EN 45545-2**

**IP rating: IP67**

## MOUNTING FLANGE

Mounting: on a conductive surface with a minimum size of 600x600mm; it's advisable to keep the mounting surface clean for a better electrical contact.

BGLI 4 holes flange: flange with 4 M10 studs included;

**Grounding and high voltage protection:** Our antennas have passed the strict SNCF's tests that approved our products as protected against lightning and high-tension voltage thanks to our patented DC and AC grounded system.

## Drilling Mask

