

SENCITY® Rail Antenna with GPS

87010011

Properties

- Railway rooftop antenna for 1800/1900/UMTS/LTE/ WiFi 1/Wi-Fi 3 band
- Embedded GPS antenna (requires separate LNA such as 86010142)
- Rugged design, meets EN 50155 Railway Standard
- Fire retardant acc. to EN 45545-2
- Contains a heavy duty fibreglass radome



Electrical bands				
	Band 1	Band 2	Band 3	Band 4
Name				
Frequency (MHz)	1710 MHz ... 1920 MHz	1920 MHz ... 2600 MHz	2600 MHz ... 3200 MHz	3200 MHz ... 3800 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	1.7	1.5	1.6	1.5
Gain (dBi)	7 dBi	6.5 dBi	5.5 dBi	7 dBi
Isolation between Ports				
Ambient Temperature	25 °C	25 °C	25 °C	25 °C

	Band 5
Name	GPS
Frequency (MHz)	1574.4 MHz ... 1576.4 MHz
Impedance	50 Ω
VSWR	2
Gain (dBi)	6 dBi
Isolation between Ports	-10 dB
Ambient Temperature	25 °C

Electrical remarks	
Remarks	Indicated VSWR values are valid for a metallic ground plane of 500mm x 500mm or larger. Low noise amplifier GPS 86010142 (please order separately).

Ports		
	Port 1	Port 2
Port name	Cell / WiFi	GPS

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Ports		
	Port 1	Port 2
Connector	N, jack (female)	TNC, plug (male)
Polarization	vertical	circular right
DC grounded	Yes	Yes

Connections		
Port number	Port 1	Port 2
Band 1	✓	
Band 2	✓	
Band 3	✓	
Band 4	✓	
Band 5		✓

Mechanical data	
Weight	0.45 kg
Dimensions	93 mm x 146 mm x 86 mm (Height x Width x Depth)

Interface and material data	
Radome material	Fiberglass
Radome colour	Grey
Back plate/base plate material	Aluminium
Back plate/base plate colour	Black

Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Transport temperature	-40 °C ... 85 °C
Ingress protection (IP Rating)	Mated / IP66
Flammability rating	EN 45545-2

Environmental remarks
Environmental tests: EN 50155:2018-05
Flammability rating: EN 45545-2

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