Data Sheet



Sencity Road MIMO Antenna 1399.99.0129

SWA-0727/360/4/10/MIMO

Description

Rugged vehicle rooftop multi-band antenna for heavy duty vehicles like bus and truck. Supports 2G/3G/4G cellular bands in 2x2 MIMO configurations and GPS/Glonass. Single hole mounting, easy cabling feed-through.



Product Configuration

Technical Data

	Data
Electrical	Data

	Band 1	Band 2	Band 3	Band 4
Frequency (MHz)	698 - 790	790 - 960	1710 - 2170	2400 - 2690
VSWR	2.2	2	2	2
Impedance (Ohm)	50	50	50	50
Gain (dBi)	4	4	6	6
Port Isolation (dB)	12	12	15	15

	Band 5
Band Name	GPS/Glonass
Frequency (MHz)	1574 - 1610
VSWR	2
Impedance (Ohm)	50

Ports

	Port 1	Port 2	Port 3
Connector	SMA, plug (male)	SMA, plug (male)	TNC, plug (male)
Cable Type	ENVIROFLEX_316	ENVIROFLEX_316	ENVIROFLEX_316_D
Cable Length (m)	0.3	0.3	0.3
Polarization	vertical	vertical	circular right

Connections

	Band 1	Band 2	Band 3	Band 4	Band 5
Port 1	Χ	Χ	Χ	Χ	
Port 2	Χ	Χ	Χ	Х	
Port 3					X

General Data

Composite Power max (W)

Ground plane: Indicated VSWR values are valid for a metallic ground plane of $0.75 \times 0.75 \text{m}$ or larger. In the 790-2700 MHz band, indicated VSWR values are also valid for installations on non-metallic surfaces (no specific ground plane requirements).

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Electrical Data LNA

LNA noise figure dB

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LNA current consumption (mA) 30
LNA is connected to Port 3

LNA input voltage range: 3..5V Total gain @90° elevation 30 dBiC

Values for LNA power consumption, noise figure and gain are given for a 5V operating voltage and may differ slightly for a lower voltage

Mechanical Data

Dimensions (mm) 88 x 83 x 208 (Heigth x Width x Depth)

Weight (kg) 0.8

Mounting breakthrough Ø30mm

Environmental Data

Environmental conditions outdoor
Operation temperature (°C) -40 to 85
Storage temperature (°C) -40 to 85
Transport temperature (°C) -40 to 85
Solar radiation DIN 75220
RoHS 2011/65/EC compliant
REACH 2006/1907/EC compliant

IP Rating IP 69K, IP 68

Flammability materials chosen acc. to UL 94-HB

Environmental tests ISO 16750:2010

Corrosion designed acc. to MIL-F-14072D (low corrosion design)

E-Mark yes CE-Mark yes

Material Data

Radome colour RAL 7043 (dark grey)

Radome material ASA (acrylic ester-styrene-acrylonitrile)

Back plate/base plate material Aluminium

Related Products

9091.99.0250 Metal ground plane foil 0.6x0.6m

Related Documents

 Mounting instruction
 DOC-0000361395

 Painting instruction
 DOC-0000256180

 Security instruction
 DOC-0000278984

 Outline drawing
 DOU-00273723

 3D-model
 DOC-0000468130

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