

SENCITY® Tram MIMO Antenna 1399.99.0203

Description

Rugged vehicle rooftop multi-band antenna for Light Rail.
Supports WiFi 2.4, 5 GHz and WiFi 6E in 3x3 MIMO configurations.
Meets EN50155 railway standard.
Fire retardant acc. to EN45545-2 and NFPA-130.
Single hole mounting, easy cabling feed-through.
Works also on non-metallic surfaces.



Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2
Band name		
Frequency (MHz)	2400 – 2690	4900 - 7125
VSWR (typical)	2.0	2.0
Impedance (Ohm)	50	50
Gain (dBi)	6	7
Composite power max (W)	40	30
Ambient temperature (°C)	25	25
Port Isolation (dB)	14	22

Ports

	Port 1	Port 2	Port 3
Port name	WiFi 1 (blue)	WiFi 2 (blue)	WiFi 3 (blue)
Connector	SMA, jack (female)	SMA, jack (female)	SMA, jack (female)
Cable Type	RADOX_RF_316_D	RADOX_RF_316_D	RADOX_RF_316_D
Cable Length (m)	0.3	0.3	0.3
Polarization	vertical	vertical	vertical
DC grounded	No	No	No

Connections

	Band 1	Band 2
Port 1	X	X
Port 2	X	X
Port 3	X	X

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General Data

Indicated VSWR values are also valid for installations on non-metallic surfaces (no ground plane requirements).

Mechanical Data

Dimensions (mm)	82 x 83 x 208 (Height x Width x Depth)
Weight (kg)	0.41
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
IP rating	IP68, IP69k
Flammability rating	EN45545-2, NFPA-130
Solar radiation	DIN 75220
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
WEEE 2012/19/EU	no special marking needed
ELV 2000/53/EC	compliant
REACH 1907/2006/EC	compliant

Environmental tests: EN50155:2018-05
High-voltage protection: EN50124-1:2017-03
Low corrosion designed acc. to MIL-F-14072D
CE-Mark

Material Data

Radome colour	RAL 9017 (black)
Radome material	PC (Polycarbonate)
Back plate/base plate material	Aluminium

Related Documents

Mounting instruction	DOC-0001163411
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-01163173
3D-model	DOC-0001163340