Data Sheet

HUBER+SUHNER

SENCITY Bridge MIMO 3x3 Antenna
1356.35.0005

Description

WiFi MIMO 3x3 antenna designed for Railway Inter-carriage communication.
Directional, linear +/-45° and vertical polarized radiation patterns.
Narrow beam width and very low directional gain to prevent interference.
Supports WiFi-2 / Wi-Fi 5 bands from 5.15 up to 5.935 GHz.
Three connector ports directly on the rear, 3 x QMA jack (straight).

Product Configuration

Technical Data

Electrical Data

	Band 1
Frequency (MHz)	5150 - 5935
VSWR	1.3
Impedance (Ohm)	50
Gain (dBi)	-2
3dB beamwidth (h) (°)	65
3dB beamwidth (v) (°)	65
Composite power max (W)	30
Ambient temperature (°C)	25
Vertical electrical tilt (°)	0
Port Isolation (dB)	30

Ports

	Port 1	Port 2	Port 3
Connector	QMA, jack (female)	QMA, jack (female)	QMA, jack (female)
Polarization	-45° slant	vertical	+45° slant

Connections

	Band 1
Port 1	X
Port 2	X
Port 3	X

General Data

Gain values include the intentionally extra attenuation of 10 dB, built-in to each of the three antenna radiator port paths

Mechanical Data

Dimensions (mm)	302 x 129 x 33 (Heigth x Width x Depth)
Weight (kg)	0.65

Ensure a flat mounting surface.

Environmental Data

Environmental conditions	indoor/outdoor
Operation temperature (°C)	-40 to 85
Storage temperature (°C)	-40 to 85
Transport temperature (°C)	-40 to 85

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Flammability rating	EN 45545-2
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
Lead-free soldered	yes
WEEE 2012/19/EU	no special marking needed
REACH 1907/2006/EC	compliant

IP Rating: IP56

Material Data

Radome colour	RAL 7043 (dark grey)
Radome material	PC (Polycarbonate)
Back plate/base plate colour	grey
Back plate/base plate material	Aluminium

Related Documents

Mounting instruction	DOC-0000842512
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-00374469
3D-model	DOC-0000829806