Data Sheet

HUBER+SUHNER

SENCITY Spot-M Yagi antenna
1324.17.0116

Description

SENCITY® Spot-M linear polarised directional Yagi antenna
Supports WLAN / WiFi acc. to IEEE 802.11 b/g
14 dBi high gain version
Railway approved acc. to EN50125-3 and EN 45545-2
Wall and mast mounting bracket included

Pigtail connector style: straight N, plug (male)



Product Configuration

Technical Data

Electrical Data

	Band 1
Frequency (MHz)	2400 - 2484
VSWR	1.7
Impedance (Ohm)	50
Gain (dBi)	14
3dB beamwidth (h) (°)	30
3dB beamwidth (v) (°)	30
Composite power max (W)	50
Ambient temperature (°C)	25

Ports

	Port 1
Connector	N, plug (male)
Cable Type	SX_04172_B-60
Cable Length (m)	0.6
Min. radius static (mm)	25
Polarization	vertical
DC grounded	Yes

General Data

The antennas signal ground is electrically isolated from ground of the backplane/bracket.
DC grounding of the antenna radiator is achieved by electrical connection to the outer conductor of the RF cable pigtail (signal ground).

Mechanical Data

Dimensions (mm)	80 x 420 x 80 (Heigth x Width x Depth)
Weight (kg)	0.85
Mast diameter (mm)	25 - 80
Included mounting material	Wall and mast mounting bracket

Mounting holes: M6 (max. 7mm diameter)
Bracket: flexible in all 3 axes for tilting and rotation of antenna. Allows mast/roof/wall mounting.

Wind speed survival: 220 km/h
Windloads at 220 km/h: 16.5 N (frontal) / 162 N (lateral)

Environmental Data

Environmental conditions	indoor/outdoor

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Operation temperature (°C)	-40 to 70
Storage temperature (°C)	-40 to 70
Transport temperature (°C)	-40 to 70
IP rating	IP65
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
WEEE 2012/19/EU	special marking needed
REACH 1907/2006/EC	compliant

Solar radiation: EN 50125-3:2004 §4.9, 1120 W/m² for 20h
Air pressure: EN 50125-3:2004 §4.2, Altitude Class A1 (up to 1400m)
Air pulse pressure: EN 50125-3:2004 §4.2, 1kPa/s
Rain: EN 50125-3:2004 §4.6, delivery rate: 6mm/min
Vibration/Shock: EN 50125-3:2004 §4.13, position profile: "outside the track"
Pollution: EN 50125-3:2004 §4.11, pollution levels: 4B1, 4S1
Corrosion: MIL-F-14072 E Type 1 "exposed"

Material Data

Radome colour	RAL 7044 (grey)
Radome material	PC (Polycarbonate)

Related Documents

Mounting instruction	DOC-0000402934
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-00304031
3D-model	DOC-0000440134

Waiver: Fact and figures herein are for information only and do not represent any warranty of any kind.