

SENCITY Spot-M Yagi antenna 1324.17.0113

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, jack (female)



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, jack (female) |
| 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 (Height x Width x Depth) |
| Weight (kg) | 0.85 |
| Windload | frontal: 14 N at km/h, lateral:134 N at km/h , Wind speed survival: km/h |
| 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.

Environmental Data

| | |
|----------------------------|----------------|
| Environmental conditions | indoor/outdoor |
| Operation temperature (°C) | -40 to 70 |
| Storage temperature (°C) | -40 to 70 |
| Transport temperature (°C) | -40 to 70 |

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|--|------------------------|
| 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-00286133 |
| 3D-model | DOC-0000440134 |