



# Rail Communications **Wireless connectivity**

Edition 02/2024



# Railway in-carriage antennas

HUBER+SUHNER offers a comprehensive portfolio of antennas for installation inside trains, covering all Wi-Fi bands, as well as cellular services.

## SENCITY OMNI-SR Slim

p.75 – 77



Omni-directional MIMO railway in-carriage antenna family are suitable for all types of trains. Designed to meet the special requirements of railway applications including environmental and fire certifications.

## SENCITY SPOT-SR

p.85 – 86



Compact directional railway in-carriage antenna family for all types of trains. Designed to meet the special requirements of railway applications including environmental and fire certifications.



### SENCITY OMNI-SR Dome

p.82 – 84



Omni-directional SISO railway in-carriage and trackside antenna family for all types of trains. Designed to meet the special requirements of railway applications including environmental and fire certifications.

### SENCITY Rail ACTIVE

p.74



Omni-directional MIMO railway in-carriage antenna + access point suitable for all types of trains. Designed to meet the special requirements of railway applications including environmental and fire certifications.

### SENCITY OMNI-SR

p.78 – 81



Omni-directional MIMO railway in-carriage antenna family for all types of trains. Designed to meet the special requirements of railway applications including environmental and fire certifications.

**SENCITY Rail ACTIVE  
In-Carriage**

Product name	<b>SENCITY Rail ACTIVE In-Carriage antenna</b>
Product ID.	<b>1499.00.0015</b>
Description	<p>Omnidirectional railway in-carriage antenna with integrated Wi-Fi access point. Power and data via a single PoE+ cable. Can be used as an all-in-one Access Point in high capacity Railway passenger Wi-Fi systems</p> <ul style="list-style-type: none"> <li>• Contains 2×3×3 MIMO Wi-Fi 5 radios connected to 6 antenna elements</li> <li>• Embedded GNSS antenna with integrated low-noise amplifier</li> <li>• Supports up to 128 clients per radio</li> <li>• Flush wall/ceiling mounting and compact form factor</li> <li>• Certified for railway standards EN 50155, EN 45545-2 and NFPA-130</li> <li>• Compact form factor allows easy deployment of Wi-Fi systems on trains, no RF cables required</li> </ul>
Item no.	85167405

Communication Services		
Supported Bands	Wi-Fi-5	802.11ac Wave 1, 3×3 MU-MIMO (5150 – 5825 MHz) 802.11n Wave 1 (2412 – 2472 MHz)
Note	Integrated Wi-Fi Radio Modules: Compex® WLE900VX	

Electrical data	
Processor	QorIQ T1023 1200 MHz Dual-Core CPU
Memory	1GB RAM / 128MB Flash storage
Operating System	Linux OS OpenWrt
Ethernet	1 × LAN M12 X-code female 300mm pigtail, PoE+ Class 4 (802.3at)

Mechanical data	
Dimensions (mm) (height × width × depth)	99 × 289 × 69 (including mounting points and cooling fins)
Weight (kg)	1.20 (without packaging)

Environmental data	
Environmental conditions	indoor
IP rating	IP5X, IPX4
RoHS 2011/65/EU	compliant
Certifications	EN 50155, EN45545, NFPA-130, EN50121-3-2, RED – 2014/53/EU, FCC Title 47 CFR Part 15B

Material data	
Radome colour	RAL 9003 (Signal White)
Radome material	PC (Polycarbonate)
Back plate / base plate material	Aluminum

**For more detailed information, please visit our website "Products" section.**

**SENCITY Omni-SR Slim**

Product name	<b>SENCITY Omni-SR 6×6 MIMO antenna</b>
Product ID.	<b>1399.35.0020</b>
Description	<p>Omnidirectional 6×6 MIMO railway in-carriage antenna suitable for all types of trains. Designed to be used as the wireless interface in Wi-Fi communication systems such as Railway passenger Wi-Fi</p> <ul style="list-style-type: none"> <li>• Compact omni-directional MIMO indoor antenna for Wi-Fi applications</li> <li>• Supports 6×6 Wi-Fi MIMO in all Wi-Fi 6E bands</li> <li>• Rugged design, meets EN 50155 railway standard</li> <li>• Fire retardant according to EN 45545-2 and NFPA130</li> <li>• Contains six RF ports QMA (female) embedded on the rear side</li> </ul>
Item no.	85150815

Technical Data	Band 1	Band 2	Band 3
Band name	Wi-Fi	Wi-Fi	Wi-Fi
Frequency	2400 – 2690 MHz	5150 – 5935 MHz	5935 – 7125 MHz
VSWR	2.0	2.0	2.0
Gain	4 dBi	4 dBi	4 dBi
Port Isolation	12 dB	20 dB	20 dB

Electrical data	
Impedance	50 Ohms
Number of Ports	6
Composite power max.	30 – 40 Watts (see datasheet for specific bands)
Polarisation	Vertical

Mechanical data	
Dimensions (height × width × depth)	31 × 91.8 × 281.8 mm
Weight	0.32 kg

Environmental data	
Environmental conditions	Indoor / outdoor
IP rating	IPX5
RoHS 2011/65/EU	compliant
Certifications	EN 50155, EN45545, NFPA 130

Material data	
Radome colour	RAL 7044 (grey)
Radome material	PC (Polycarbonate)
Back plate / base plate material	Aluminum

**For more detailed information, please visit our website "Products" section.**

**SENCITY Omni-SR Slim**

Product name	<b>SENCITY Omni-SR 3×3 MIMO antenna</b>
Product ID.	<b>1399.35.0002</b>
Description	<p>Omnidirectional 3×3 MIMO railway in-carriage antenna suitable for all types of trains. Designed to be used as the wireless interface in Wi-Fi communication systems such as Railway passenger Wi-Fi</p> <ul style="list-style-type: none"> <li>• Compact omni-directional MIMO indoor antenna for Wi-Fi applications</li> <li>• Supports 3×3 Wi-Fi MIMO in all Wi-Fi 6E bands</li> <li>• Rugged design, meets EN 50155 railway standard</li> <li>• Fire retardant according to EN 45545-2 and NFPA130</li> <li>• Contains three RF ports QMA (female) embedded on the rear side</li> </ul>
Item no.	84123697

Technical Data	Band 1	Band 2	Band 3
Band name	Wi-Fi	Wi-Fi	Wi-Fi
Frequency	2400 – 2690 MHz	5150 – 5935 MHz	5935 – 7125 MHz
VSWR	1.5	1.5	1.8
Gain	4 dBi	6 dBi	6 dBi
Port Isolation	20 dB	20 dB	20 dB

Electrical data	
Impedance	50 Ohms
Number of Ports	3
Composite power max.	30 – 40 Watts (see datasheet for specific bands)
Polarisation	Vertical

Mechanical data	
Dimensions (height × width × depth)	31 × 91.8 × 281.8 mm
Weight	0.32 kg

Environmental data	
Environmental conditions	Indoor / outdoor
IP rating	IPX5
RoHS 2011/65/EU	compliant
Certifications	EN 50155, EN45545, NFPA 130

Material data	
Radome colour	RAL 7044 (grey)
Radome material	PC (Polycarbonate)
Back plate / base plate material	Aluminum

**For more detailed information, please visit our website "Products" section.**

**SENCITY Omni-SR Slim**

Product name	<b>SENCITY Omni-SR 3×3 MIMO antenna</b>
Product ID.	<b>1399.35.0008</b>
Description	<p>Omnidirectional 3×3 MIMO railway in-carriage antenna suitable for all types of trains. Designed to be used as the wireless interface in Wi-Fi communication systems such as Railway passenger Wi-Fi</p> <ul style="list-style-type: none"> <li>• Compact omni-directional MIMO indoor antenna for Wi-Fi applications</li> <li>• Supports 3×3 Wi-Fi MIMO in all Wi-Fi 6E bands</li> <li>• Rugged design, meets EN 50155 railway standard</li> <li>• Fire retardant according to EN 45545-2 and NFPA130</li> <li>• Contains three RF ports QMA (female) embedded on the rear side</li> </ul>
Item no.	85089336

Technical Data	Band 1	Band 2	Band 3
Band name	Wi-Fi	Wi-Fi	Wi-Fi
Frequency	2400 – 2690 MHz	5150 – 5935 MHz	5935 – 7125 MHz
VSWR	1.5	1.5	1.8
Gain	4 dBi	6 dBi	6 dBi
Port Isolation	20 dB	20 dB	20 dB

Electrical data	
Impedance	50 Ohms
Number of Ports	3
Composite power max.	30 – 40 Watts (see datasheet for specific bands)
Polarisation	Vertical

Mechanical data	
Dimensions (height × width × depth)	31 × 91.8 × 281.8 mm
Weight	0.32 kg

Environmental data	
Environmental conditions	Indoor / outdoor
IP rating	IPX5
RoHS 2011/65/EU	compliant
Certifications	EN 50155, EN45545, NFPA 130

Material data	
Radome colour	RAL 9010 (white)
Radome material	PC (Polycarbonate)
Back plate / base plate material	Aluminum

**For more detailed information, please visit our website "Products" section.**

**SENCITY Omni-SR**

Product name	<b>SENCITY Omni-SR 4×4 MIMO antenna</b>
Product ID.	<b>1399.17.0240</b>
Description	<p>Omnidirectional 4×4 MIMO railway in-carriage antenna suitable for all types of trains. Designed to be used as the wireless interface in Wi-Fi or Cellular Mid-Band communication systems</p> <ul style="list-style-type: none"> <li>• Supports 4×4 WiFi MIMO in Wi-Fi 4 / Wi-Fi 6 bands &amp; 4×4 Cellular MIMO in 2.3 / 2.6 / 3.5 GHz bands</li> <li>• Rugged design, meets EN 50155 railway standard</li> <li>• Fire retardant according to EN 45545-2 and NFPA-130</li> <li>• Single hole mounting</li> <li>• Cable length 0.5m</li> </ul>
Item no.	85078396

Technical Data	Band 1	Band 2	Band 3	Band 4
Band name	Wi-Fi	Wi-Fi	Cellular / Wi-Fi	Wi-Fi
Frequency	2300 – 2500 MHz	2500 – 2690 MHz	3400 – 3800 MHz	4900 – 5975 MHz
VSWR	1.7	1.8	1.8	1.5
Gain	3.5 dBi	3.5 dBi	5 dBi	4.5 dBi
Port Isolation	15 dB	16 dB	25 dB	30 dB

Electrical data	
Impedance	50 Ohms
Number of Ports	4
Composite power max.	10 Watts
Polarisation	Vertical

Mechanical data	
Dimensions (height × diameter)	33.2 × 145
Weight	0.9 kg

Environmental data	
Environmental conditions	Indoor / outdoor
IP rating	IP6X, IPX4, IPX8, IPX9
RoHS 2011/65/EU	compliant
Certifications	EN 50155, EN45545, NFPA 130

Material data	
Radome colour	RAL 7044 (grey)
Radome material	PC (Polycarbonate)
Back plate / base plate material	Aluminum

**For more detailed information, please visit our website "Products" section.**



**SENCITY Omni-SR**

Product name	<b>SENCITY Omni-SR 4×4 MIMO antenna</b>
Product ID.	<b>1399.17.0246</b>
Description	<p>Omnidirectional 4×4 MIMO railway in-carriage antenna suitable for all types of trains. Designed to be used as the wireless interface in Wi-Fi or Cellular Mid-Band communication systems</p> <ul style="list-style-type: none"> <li>• Supports 4×4 WiFi MIMO in Wi-Fi 4 / Wi-Fi 6 bands &amp; 4×4 Cellular MIMO in 2.3 / 2.6 / 3.5 GHz bands</li> <li>• Rugged design, meets EN 50155 railway standard</li> <li>• Fire retardant according to EN 45545-2 and NFPA-130</li> <li>• Single hole mounting</li> <li>• Cable length 1.5m</li> </ul>
Item no.	85087896

Technical Data	Band 1	Band 2	Band 3	Band 4
Band name	Wi-Fi	Wi-Fi	Cellular / Wi-Fi	Wi-Fi
Frequency	2300 – 2500 MHz	2500 – 2690 MHz	3400 – 3800 MHz	4900 – 5975 MHz
VSWR	1.7	1.8	1.8	1.5
Gain	1 dBi	1.5 dBi	3 dBi	3.5 dBi
Port Isolation	15 dB	15 dB	30 dB	35 dB

Electrical data	
Impedance	50 Ohms
Number of Ports	4
Composite power max.	10 Watts
Polarisation	Vertical

Mechanical data	
Dimensions (height × diameter)	33.2 × 145
Weight	0.92 kg

Environmental data	
Environmental conditions	Indoor / outdoor
IP rating	IP6X, IPX4, IPX8, IPX9
RoHS 2011/65/EU	compliant
Certifications	EN 50155, EN45545, NFPA 130

Material data	
Radome colour	RAL 7044 (grey)
Radome material	PC (Polycarbonate)
Back plate / base plate material	Aluminum

**For more detailed information, please visit our website "Products" section.**

**SENCITY Omni-SR**

Product name	<b>SENCITY Omni-SR 4×4 MIMO antenna</b>
Product ID.	<b>1399.35.0010</b>
Description	<p>Omnidirectional 4×4 MIMO railway in-carriage antenna suitable for all types of trains. Designed to be used as the wireless interface in Wi-Fi or Cellular Mid-Band communication systems such as Railway in-carriage</p> <ul style="list-style-type: none"> <li>• Supports 4×4 WiFi MIMO in Wi-Fi 4 / Wi-Fi 6 bands &amp; 4×4 Cellular MIMO in 2.3 / 2.6 / 3.5 GHz bands</li> <li>• Rugged design, meets EN 50155 railway standard</li> <li>• Fire retardant according to EN 45545-2 and NFPA-130</li> <li>• Single hole mounting</li> <li>• Cable length 1.5m</li> </ul>
Item no.	85097487

Technical Data	Band 1	Band 2	Band 3	Band 4
Band name	Wi-Fi	Wi-Fi	Cellular / Wi-Fi	Wi-Fi
Frequency	2300 – 2500 MHz	2500 – 2690 MHz	3400 – 3800 MHz	4900 – 5975 MHz
VSWR	1.7	1.8	2.0	1.5
Gain	1 dBi	1.5 dBi	3 dBi	3.5 dBi
Port Isolation	15 dB	15 dB	30 dB	35 dB

Electrical data	
Impedance	50 Ohms
Number of Ports	4
Composite power max.	10 Watts
Polarisation	Vertical

Mechanical data	
Dimensions (height × diameter)	33.2 × 145
Weight	0.64 kg

Environmental data	
Environmental conditions	Indoor / outdoor
IP rating	IP6X, IPX4, IPX8, IPX9
RoHS 2011/65/EU	compliant
Certifications	EN 50155, EN45545, NFPA 130

Material data	
Radome colour	RAL 7044 (grey)
Radome material	PC (Polycarbonate)
Back plate / base plate material	Aluminum

**For more detailed information, please visit our website "Products" section.**

**SENCITY Omni-SR**

Product name	<b>SENCITY Omni-SR 4×4 MIMO antenna</b>
Product ID.	<b>1399.17.0264</b>
Description	<p>Omnidirectional 2×2 MIMO railway in-carriage antenna suitable for all types of trains. Designed to be used as the wireless interface in Wi-Fi or Cellular communication systems such as Railway in-carriage</p> <ul style="list-style-type: none"> <li>• Supports 2×2 WiFi MIMO in all Wi-Fi 6E bands or 2×2 Cellular MIMO in 800 / 900 /1800 / 2100 / 2600 MHz bands</li> <li>• Rugged design, meets EN 50155 railway standard</li> <li>• Fire retardant according to EN 45545-2 and NFPA-130</li> <li>• Single hole mounting</li> <li>• Cable length 0.5m</li> </ul>
Item no.	85127817

Technical Data	Band 1	Band 2	Band 3
Band name	Cellular / Wi-Fi	Cellular / Wi-Fi	Cellular / Wi-Fi
Frequency	790 – 900 MHz	900 – 960 MHz	1710 – 1750 MHz
VSWR	2.0	2.3	2.3
Gain	4 dBi	4 dBi	4 dBi
Port Isolation	15 dB	15 dB	30 dB
	Band 4	Band 5	Band 6
Band name	Cellular / Wi-Fi	Cellular / Wi-Fi	Cellular / Wi-Fi
Frequency	1750 – 2700 MHz	4900 – 6425 MHz	6425 – 7125 MHz
VSWR	1.8	1.5	2.2
Gain	6 dBi	6 dBi	6 dBi
Port Isolation	35 dB	15 dB	15 dB

Electrical data	
Impedance	50 Ohms
Number of Ports	2
Composite power max.	10 Watts
Polarisation	Vertical

Mechanical data	
Dimensions (height × diameter)	33.2 × 145
Weight	0.9 kg

Environmental data	
Environmental conditions	Indoor / outdoor
IP rating	IP6X, IPX4, IPX8, IPX9
RoHS 2011/65/EU	compliant
Certifications	EN 50155, EN45545, NFPA 130

Material data	
Radome colour	RAL 7044 (grey)
Radome material	PC (Polycarbonate)
Back plate / base plate material	Aluminum

**For more detailed information, please visit our website "Products" section.**

**SENCITY Omni-SR Dome**

Product name	<b>SENCITY Omni-SR Dome antenna</b>
Product ID.	<b>1399.17.0106</b>
Description	<p>Omnidirectional SISO railway in-carriage antenna suitable for all types of trains. Designed to be used as the wireless interface in in-carriage data communication systems</p> <ul style="list-style-type: none"> <li>• Compact Omnidirectional in-carriage antenna for all Wi-Fi 6E bands (2.4 GHz / 5GHz / 6 GHz)</li> <li>• Rugged design, meets EN 50155 Railway Standard and IP65 rating</li> <li>• Fire retardant according to EN 45545-2 and NFPA-130</li> <li>• Protection against lightning</li> <li>• Integrated N female interface</li> </ul>
Item no.	84039156

Technical Data	Band 1	Band 2	Band 3
Band name	Cellular / Wi-Fi	Cellular / Wi-Fi	Cellular / Wi-Fi
Frequency	2400 – 2500 MHz	2500 – 2700 MHz	3400 – 3800 MHz
VSWR	1.8	2.0	2.0
Gain	6 dBi	6 dBi	6 dBi
	Band 4	Band 5	
Band name	Cellular / Wi-Fi	Cellular / Wi-Fi	
Frequency	4900 – 5925 MHz	5925 – 7125 MHz	
VSWR	1.8	1.9	
Gain	8 dBi	8 dBi	

Electrical data	
Impedance	50 Ohms
Number of Ports	1
Composite power max.	300 – 350 Watts
Polarisation	Vertical

Mechanical data	
Dimensions (height × diameter)	43 × 86 mm
Weight	0.3 kg

Environmental data	
Environmental conditions	Indoor / outdoor
IP rating	IP6X, IPX5
RoHS 2011/65/EU	compliant
Certifications	EN 50155, EN45545, NFPA 130

Material data	
Radome colour	RAL 7035 (light grey)
Radome material	PC (Polycarbonate)
Back plate / base plate material	Aluminum

**For more detailed information, please visit our website "Products" section.**



**SENCITY Omni-SR Dome**

Product name	<b>SENCITY Omni-SR Dome antenna</b>
Product ID.	<b>1399.17.0108</b>
Description	<p>Omnidirectional SISO railway outdoor antenna for all types of trains. Designed to be used as the wireless interface in Wi-Fi or C-Band communication systems.</p> <ul style="list-style-type: none"> <li>• Compact Omnidirectional outdoor antenna for Wi-Fi 6E bands (2.4 GHz / 5GHz / 6 GHz) &amp; industrial 5G (3.5 GHz)</li> <li>• Rugged design, meets EN 50155 Railway Standard and IP68 rating</li> <li>• Fire retardant according to EN 45545-2 and NFPA-130</li> <li>• Protection against lightning</li> <li>• Integrated N female interface</li> </ul>
Item no.	84040934

Technical Data	Band 1	Band 2	Band 3
Band name	Cellular / Wi-Fi	Cellular / Wi-Fi	Cellular / Wi-Fi
Frequency	2400 – 2500 MHz	2500 – 2700 MHz	3400 – 3800 MHz
VSWR	1.8	2.0	2.0
Gain	6 dBi	6 dBi	6 dBi
	Band 4	Band 5	
Band name	Cellular / Wi-Fi	Cellular / Wi-Fi	
Frequency	4900 – 5925 MHz	5925 – 7125 MHz	
VSWR	1.8	1.9	
Gain	8 dBi	8 dBi	

Electrical data	
Impedance	50 Ohms
Number of Ports	1
Composite power max.	300 – 350 Watts
Polarisation	Vertical

Mechanical data	
Dimensions (height × diameter)	50.6 × 86 mm
Weight	0.3 kg

Environmental data	
Environmental conditions	Indoor / outdoor
IP rating	IP6X, IPX7, IPX8
RoHS 2011/65/EU	compliant
Certifications	EN 50155, EN45545, NFPA 130

Material data	
Radome colour	RAL 7043 (dark grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back plate / base plate material	Stainless Steel

**For more detailed information, please visit our website "Products" section.**

**SENCITY Omni-SR Dome**

Product name	<b>SENCITY Omni-SR Dome antenna</b>
Product ID.	<b>1399.17.0111</b>
Description	<p>Omnidirectional SISO railway outdoor antenna for all types of trains. Designed to be used as the wireless interface in Wi-Fi or C-Band communication systems.</p> <ul style="list-style-type: none"> <li>• Compact Omnidirectional outdoor antenna for Wi-Fi 6E bands (2.4 GHz / 5GHz / 6 GHz) &amp; industrial 5G (3.5 GHz)</li> <li>• Rugged design, meets EN 50155 Railway Standard and IP68 rating</li> <li>• Fire retardant according to EN 45545-2 and NFPA-130</li> <li>• Protection against lightning</li> <li>• Integrated N female interface</li> </ul>
Item no.	84043908

Technical Data	Band 1	Band 2	Band 3
Band name	Cellular / Wi-Fi	Cellular / Wi-Fi	Cellular / Wi-Fi
Frequency	2400 – 2500 MHz	2500 – 2700 MHz	3400 – 3800 MHz
VSWR	1.8	2.0	2.0
Gain	6 dBi	6 dBi	6 dBi
	Band 4	Band 5	
Band name	Cellular / Wi-Fi	Cellular / Wi-Fi	
Frequency	4900 – 5925 MHz	5925 – 7125 MHz	
VSWR	1.8	1.9	
Gain	8 dBi	8 dBi	

Electrical data	
Impedance	50 Ohms
Number of Ports	1
Composite power max.	300 – 350 Watts
Polarisation	Vertical

Mechanical data	
Dimensions (height × diameter)	50.6 × 86 mm
Weight	0.3 kg

Environmental data	
Environmental conditions	Indoor / outdoor
IP rating	IP6X, IPX7, IPX8
RoHS 2011/65/EU	compliant
Certifications	EN 50155, EN45545, NFPA 130

Material data	
Radome colour	RAL 7043 (dark grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back plate / base plate material	Stainless Steel

**For more detailed information, please visit our website "Products" section.**

**SENCITY Spot-SR**

Product name	<b>SENCITY Spot-SR 2x2 Wi-Fi MIMO antenna</b>
Product ID.	<b>1356.17.0089</b>
Description	<p>Compact directional high gain Wi-Fi antenna designed to meet harsh industrial requirements. Designed to be used as the wireless interface for Wi-Fi 5 GHz directional systems such as Railway Trackside</p> <ul style="list-style-type: none"> <li>• Compact Industrial antenna for Wi-Fi bands between 4900 and 5935 MHz</li> <li>• Gain of 14 dBi with dual slant +/-45° polarization</li> <li>• Half power beamwidth of 30° (vertical) and 40° (Horizontal)</li> <li>• Wall and Mast mounting brackets included</li> <li>• Integrated N female interfaces</li> </ul>
Item no.	85174126

Technical Data	Band 1	Band 2	Band 3
Band name	Wi-Fi	Wi-Fi	Wi-Fi
Frequency	4900 – 5150 MHz	5150 – 5470 MHz	5470 – 5935 MHz
VSWR	2.0	1.6	1.6
Gain	11.5 dBi	12.5 dBi	13 dBi
Isolation	19	20	21

Electrical data	
Impedance	50 Ohms
Number of Ports	2
Composite power max.	30 Watts
Polarisation	Dual slant (-45 degrees and + 45 degrees)

Mechanical data	
Dimensions (height × width × depth)	101 × 81 × 36mm
Weight	0.11 kg

Environmental data	
Environmental conditions	Indoor / outdoor
IP rating	IP6X, IPX6, IPX7
RoHS 2011/65/EU	compliant
Certifications	EN 50155, EN45545, NFPA 130

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

**For more detailed information, please visit our website "Products" section.**

**SENCITY Spot-SR**

Product name	<b>SENCITY Spot-SR 2x2 Wi-Fi MIMO antenna</b>
Product ID.	<b>1356.35.0089</b>
Description	<p>Compact directional high gain Wi-Fi antenna designed to meet harsh industrial requirements. Designed to be used as the wireless interface for Wi-Fi 5 GHz directional systems such as Railway Trackside</p> <ul style="list-style-type: none"> <li>• Compact Industrial antenna for Wi-Fi bands between 4900 and 5935 MHz</li> <li>• Gain of 14 dBi with dual slant +/-45° polarization</li> <li>• Half power beamwidth of 30° (vertical) and 40° (Horizontal)</li> <li>• Wall and Mast mounting brackets included</li> <li>• Integrated QMA female interface</li> </ul>
Item no.	85150814

Technical Data	Band 1	Band 2	Band 3
Band name	Wi-Fi	Wi-Fi	Wi-Fi
Frequency	4900 – 5150 MHz	5150 – 5470 MHz	5470 – 5935 MHz
VSWR	2.0	1.6	1.6
Gain	11.5 dBi	12.5 dBi	13 dBi
Isolation	19	20	21

**Electrical data**

Impedance	50 Ohms
Number of Ports	2
Composite power max.	30 Watts
Polarisation	Dual slant (-45 degrees and + 45 degrees)

**Mechanical data**

Dimensions (height × width × depth)	101 × 81 × 36mm
Weight	0.11 kg

**Environmental data**

Environmental conditions	Indoor / outdoor
IP rating	IP6X, IPX6, IPX7
RoHS 2011/65/EU	compliant
Certifications	EN 50155, EN45545, NFPA 130

**Material data**

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

**For more detailed information, please visit our website "Products" section.**



HUBER+SUHNER AG  
Wireless connectivity  
Degersheimerstrasse 14  
9100 Herisau  
Switzerland  
Phone +41 71 353 41 11  
hubersuhner.com

HUBER+SUHNER is certified to ISO 9001, ISO 14001, ISO 45001, EN/AS 9100, IATF 16949 and ISO/TS 22163-IRIS.

**Waiver**

The facts and figures provided herein are for information only and do not represent any warranty of any kind.