

Antennas

Edition 2018/02



Excellence in wireless connectivity





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HUBER+SUHNER develops and produces since more than twenty years an extensive portfolio of directional and omni-directional antennas for the wide range of indoor and outdoor wireless connections such as:

- IBC/DAS antennas
- mm-wave antennas
- Vehicles antennas
- WLAN/WiFi antennas

SENCITY® antennas

HUBER+SUHNER antenna families cover various frequency bands from 380 MHz to 90 GHz and have different designs to cope with specific market requirements.



SENCITY® Avant

Broadband omnidirectional antenna with small form factor for indoor DAS.



SENCITY® Omni-S/M stick

Omni-directional WLAN / WiFi / Cellular / LTE stick antenna for harsh industrial environment or DAS applications.



SENCITY® Cube

Directional MIMO or SISO antenna for indoor DAS.



SENCITY® Optima

Ultra-broadband antenna with low profile for indoor DAS.



SENCITY® Matrix

Smallest form factor mm-wave antenna minimizing the visual impact of point-to-point radios.



SENCITY® Rail

Omnidirectional railway roof-top antenna family for all types of trains. Designed to meet the special requirements of railway applications including high-current and high voltage protection.



SENCITY® Omni-S

Vandalism-proof omni-directional antenna for outdoor and indoor applications. The product can be configured to specific needs.



SENCITY® Rail Excel

Directional railway roof-top antenna family for all types of trains. Designed to meet the special requirements of railway applications including high-current and high voltage protection.



SENCITY® Omni-S SC

Vandalism proof low profile multi band MIMO antenna optimized for small cell applications.



SENCITY® Road

Vehicle roof-top antenna family for heavy-duty, bus and LRV/Metro. Provides several antenna elements in one compact housing.



SENCITY® Spot-M Yagi

Directional high gain WLAN / WiFi antenna for railway trackside and tunnel applications.



SENCITY® Rondo

MIMO and SISO antenna with attractive design and five different mounting options for indoor DAS.



SENCITY® Ultra

Small form factor indoor DAS antenna for private and public security and LTE networks.



SENCITY® Spot-S

Small, directional medium gain WLAN / WiFi / ISM / cellular band antenna. Variants available optimized for harsh industrial, railway or indoor environment.



SENCITY® Embedded

Omni-directional dual-band WLAN / WiFi / Cellular / LTE antenna for wireless device integration.



SENCITY® Spot-M/L

Directional high gain WLAN / WiFi / ISM-band antenna for indoor and outdoor applications.

Antenna overview

		Frequency range																
		TETRA, Public Safety (400 MHz)	ISM (433 MHz)	Cellular (700 MHz)	Cellular (800, 850, 900 MHz)	ISM (866/915 MHz)	Cellular (1.7, 1.8, 1.9, 2.1 GHz)	DECT (1.9 GHz)	Cellular (2.3 GHz)	WiFi (2.4 GHz)	Cellular (2.6 GHz)	Cellular (3.5, 3.7 GHz)	Public Safety (4.9 GHz)	WiFi, Cellular (5 GHz)	GNSS	V-Band (60 GHz)	E-Band (70, 80 GHz)	
SENCITY® Avant				x	x	x	x	x		x	x	x	x	x				
SENCITY® Cube				x	x	x	x	x	x	x	x							
SENCITY® Matrix																x	x	
SENCITY® Omni-S										x	x	x	x	x				
				x	x	x	x	x	x	x	x	x	x	x	x			
								x		x	x	x	x	x				
										x	x			x				

This overview includes all possible features inside an antenna group, for details refer to the indicated pages.

	Gain		Configuration					Pattern				Norms						
	from	to	SiSo	MiMo 2x2	MiMo 3x3	Mimo 4x4	Configurable	directional	omni-directional	PIM	outdoor	Automotive ISO 16750	Industry EN 60068	Railway EN 50155	Railway EN 50125	Railway EN 45545-2	Railway NFPA130	Page
	2.5	7.5	x						x	-143	-							14
	2	7	x	x				x		-150	-							15
	38		x					x			x							17
	6	8	x						x		x			x		x		19
	1.5	6.5	x		x	x	x		x		x		x	x		x	x	20
	4	7.5	x						x		-			x		x	x	27
	4	6			x				x		-			x		x	x	32

Antenna overview (continuing)

		Frequency range																
		TETRA, Public Safety (400 MHz)	ISM (433 MHz)	Cellular (700 MHz)	Cellular (800, 850, 900 MHz)	ISM (866/915 MHz)	Cellular (1.7, 1.8, 1.9, 2.1 GHz)	DECT (1.9 GHz)	Cellular (2.3 GHz)	WiFi (2.4 GHz)	Cellular (2.6 GHz)	Cellular (3.5, 3.7 GHz)	Public Safety (4.9 GHz)	WiFi, Cellular (5 GHz)	GNSS	V-Band (60 GHz)	E-Band (70, 80 GHz)	
SENCITY® Omni-S SC							x	x	x	x	x	x		x				
SENCITY® Omni-S stick							x	x	x	x	x							
							x	x	x	x	x	x	x	x				
SENCITY® Omni-M stick					x	x	x	x	x	x			x	x				
SENCITY® Omni-L stick								x										
SENCITY® Optima				x	x	x	x	x	x	x	x	x	x	x				
SENCITY® Rail				x	x	x	x	x	x	x	x	x	x	x	x			
			x	x	x	x	x	x	x	x	x	x	x	x	x			
					x	x	x	x	x	x	x	x	x	x	x			
					x	x	x	x	x	x	x	x	x	x	x			
				x	x	x	x	x	x	x	x	x	x	x	x			

This overview includes all possible features inside an antenna group, for details refer to the indicated pages.

	Gain		Configuration					Pattern				Norms						
	from	to	SiSo	MiMo 2x2	MiMo 3x3	Mimo 4x4	Configurable	directional	omni-directional	PIM	outdoor	Automotive ISO 16750	Industry EN 60068	Railway EN 50155	Railway EN 50125	Railway EN 45545-2	Railway NFPA130	Page
	4.5	5.5		x					x	-150	x		x					35
	2	3	x						x	-145	x		x					37
	1.5	2.5	x						x		x		x	x		x		40
	5	6	x						x	-145	x		x					41
	7	7	x						x		x		x					45
	2	8	x						x	-150	-							46
	6	9	x						x		x			x		x		47
	4	8	x						x		x			x		x		50
	5	7	x						x		x			x		x		51
	5	8		x					x		x			x		x		52
	5	8.5		x					x		x			x		x	x	53

Antenna overview (continuing)

		Frequency range																
		TETRA, Public Safety (400 MHz)	ISM (433 MHz)	Cellular (700 MHz)	Cellular (800, 850, 900 MHz)	ISM (866/915 MHz)	Cellular (1.7, 1.8, 1.9, 2.1 GHz)	DECT (1.9 GHz)	Cellular (2.3 GHz)	WiFi (2.4 GHz)	Cellular (2.6 GHz)	Cellular (3.5, 3.7 GHz)	Public Safety (4.9 GHz)	WiFi, Cellular (5 GHz)	GNSS	V-Band (60 GHz)	E-Band (70, 80 GHz)	
SENCITY® Rail Excel													x	x				
										x	x							
SENCITY® Road		x	x	x	x	x	x	x	x	x	x	x	x	x	x			
				x	x	x	x	x	x	x	x				x			
SENCITY® Rondo				x	x	x	x	x	x	x	x	x						
SENCITY® Spot-S						x	x	x		x	x		x	x				
SENCITY® Spot-S indoor									x	x	x			x				
								x	x	x				x				
SENCITY® Spot-M						x			x	x	x			x				

This overview includes all possible features inside an antenna group, for details refer to the indicated pages.

	Gain		Configuration					Pattern				Norms						Page
	from	to	SiSo	MiMo 2x2	MiMo 3x3	Mimo 4x4	Configurable	directional	omni-directional	PIM	outdoor	Automotive ISO 16750	Industry EN 60068	Railway EN 50155	Railway EN 50125	Railway EN 45545-2	Railway NFPA130	
	12	12						x			x			x		x		54
	11	14						x			x			x		x		56
	4	7	x						x		x	x						58
	4	6		x					x		x	x						62
	2	7	x	x	x				x	-155	-							63
	3.5	14	x	x	x			x			x		x	x	x	x	x	65
	7.5	11.5	x					x			-			x		x	x	76
	8	9	x					x			-							86
	8	19	x	x				x			x		x					87

Antenna overview (continuing)

		Frequency range																
		TETRA, Public Safety (400 MHz)	ISM (433 MHz)	Cellular (700 MHz)	Cellular (800, 850, 900 MHz)	ISM (866/915 MHz)	Cellular (1.7, 1.8, 1.9, 2.1 GHz)	DECT (1.9 GHz)	Cellular (2.3 GHz)	WiFi (2.4 GHz)	Cellular (2.6 GHz)	Cellular (3.5, 3.7 GHz)	Public Safety (4.9 GHz)	WiFi, Cellular (5 GHz)	GNSS	V-Band (60 GHz)	E-Band (70, 80 GHz)	
SENCITY® Spot-L			x						x	x	x		x	x				
SENCITY® Spot-L sector						x								x				
SENCITY® Spot-M Yagi										x								
SENCITY® Ultra		x	x	x	x	x	x	x	x	x	x	x	x					
SENCITY® Embedded					x	x	x	x	x	x	x		x	x				

This overview includes all possible features inside an antenna group, for details refer to the indicated pages.

	Gain		Configuration					Pattern				Norms						Page
	from	to	SiSo	MiMo 2x2	MiMo 3x3	Mimo 4x4	Configurable	directional	omni-directional	PIM	outdoor	Automotive ISO 16750	Industry EN 60068	Railway EN 50155	Railway EN 50125	Railway EN 45545-2	Railway NFPA130	
	9	23	x	x	x			x			x		x					92
	11	17	x					x			-		x					97
	14	14	x					x			x				x	x		101
	3.5	10.0	x						x	-150	-							102
	1	4	x				x		x		-							103

SENCITY® Avant



Features:

- Omnidirectional antenna for indoor DAS and in-building coverage
- Ultra broad band antenna supporting AMPS, CDMA, PCS, UMTS1900, GSM 900, GSM 1800, UMTS, WiFi, WLAN 2400 and 5600, LTE

Specifications

Electrical data						
Frequency (MHz)	698 to 806	806 to 960	1710 to 2170	2400 to 2700	3400 to 3700	4900 to 5935
VSWR	2	2	1.8	1.9	1.7	1.5
Gain (dBi)	2.5	5	5.5	6.5	7.5	7.5

General data	
Nominal impedance (Ω)	50
IMD level (dBc)	-143 at 2×30 dBm
Polarisation	vertical
Composite power max. (W)	100

Mechanical data	
Dimensions (height $\times$ width $\times$ depth)	90 $\times$ 78 $\times$ 255 mm (3.54 $\times$ 3.07 $\times$ 10.04 in)
Weight	0.83 kg (1.83 lbs)
Connector	N (female)

Environmental data	
Environment	indoor
Operation temperature ($^{\circ}\text{C}$)	-10 to 55
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 9010 (white)
Back/base plate colour	RAL 9010 (white)
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1399.17.0133	85004734	N (female)

SENCITY® Cube



Features:

- Indoor DAS directional antenna for In-building coverage
- 698 to 2700 MHz
- AMPS, GSM, PCS, CDMA, UMTS, WiFi, WLAN 2.4, LTE
- Fitted with 0.3 m plenum rated pigtail cable

Specifications

Electrical data				
Frequency (MHz)	698 to 790	790 to 960	1710 to 2170	2170 to 2700
VSWR	2	2	1.8	1.8
Gain (dBi)	6	7	8	7
3 dB beamwidth (h) (°)	85 to 95	70 to 85	75 to 85	65 to 90
3 dB beamwidth (v) (°)	65 to 90	60 to 70	41 to 55	50 to 70

General data	
Nominal impedance (Ω)	50
IMD level (dBc)	-150 at 2 × 30 dBm
Polarisation	vertical
Composite power max. (W)	50

Mechanical data	
Dimensions (height × width × depth)	260 × 200 × 71 mm (10.24 × 7.87 × 2.80 in)
Weight	1.1 kg (2.42 lbs)
Connector	N (female)
Cable type	SUCOFORM_141_CU_CMP

Environmental data	
Environment	indoor
Operation temperature (°C)	0 to 55
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 9003 (signal white)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1399.17.0233	85030125	N (female)

SENCITY® Cube MIMO



Features:

- Indoor DAS directional antenna for in-building coverage
- 698 to 2700 MHz
- AMPS, GSM, PCS, CDMA, UMTS, WiFi, WLAN 2.4, LTE
- Fitted with 0.3 m plenum rated pigtail cable

Specifications

Electrical data			
Frequency (MHz)	698 to 790	790 to 960	1710 to 2700
VSWR	2	2	1.8
Gain (dBi)	6	6	7
Isolation (dB)	18	20	25
3 dB beamwidth (h) (°)	60 to 75	60 to 75	70 to 100
3 dB beamwidth (v) (°)	70 to 80	70 to 80	65 to 100

General data	
Nominal impedance (Ω)	50
IMD level (dBc)	-150 at 2 × 30 dBm
Polarisation	±45° slant
Composite power max. (W)	50

Mechanical data	
Dimensions (height × width × depth)	260 × 200 × 71 mm (10.24 × 7.87 × 2.80 in)
Weight	1.1 kg (2.42 lbs)
Connector	4.3-10 (female) or N (female)
Cable type	SUCOFORM_141_CU_CMP

Environmental data	
Environment	indoor
Operation temperature (°C)	0 to 55
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 9003 (signal white)
Radome material	PC (Polycarbonate)
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1399.31.0002	85073673	4.3-10 (female)
1399.17.0235	85063723	N (female)

SENCITY® Matrix 60 GHz antenna 38 dBi



- Features:
- V-band (60 GHz) integral antenna for unobtrusive, high capacity radio links

Specifications

Electrical data	
Frequency (MHz)	57 000 to 66 000
VSWR	1.9
Gain (dBi)	38
3 dB beamwidth (h) (°)	1.8
3 dB beamwidth (v) (°)	1.8
Front to back ratio (dB)	48
Co/Crosspolar ratio (dB)	21
Sidelobes (h)	ETSI EN 302 217-4-2 V1.5.1 CLASS 2
Sidelobes (v)	ETSI EN 302 217-4-2 V1.5.1 CLASS 2
General data	
Polarisation	linear
Mechanical data	
Dimensions (height × width × depth)	9.5 × 135 × 130 mm (0.37 × 5.31 × 5.12 in)
Weight	0.15 kg (0.33 lbs)
Connector	WR15 (application specific waveguide flange)
Environmental data	
Environment	indoor/outdoor
Operation temperature (°C)	−45 to 85
RoHS 2011/65/EU	compliant

Ordering information

Description	Item no.	Version
1360.99.0013	85063112	as above

SENCITY® Matrix 70/80 GHz antenna 38 dBi



- Features:
- E-Band antenna for unobtrusive, high capacity radio links

Specifications

Electrical data		
Frequency (MHz)	71 000 to 76 000	81 000 to 86 000
VSWR	2.6	2.6
Gain (dBi)	38.2	39.5
3 dB beamwidth (h) (°)	1.9	1.8
3 dB beamwidth (v) (°)	1.9	1.8
Front to back ratio (dB)	48	48
Co/Crosspolar ratio (dB)	21	21
Sidelobes (h)	ETSI EN 302 217-4-2 V1.5.1 CLASS 2	
Sidelobes (v)	ETSI EN 302 217-4-2 V1.5.1 CLASS 2	
General data		
Polarisation	linear	
Mechanical data		
Dimensions (height × width × depth)	7.5 × 106 × 102 mm (0.30 × 4.17 × 4.02 in)	
Weight	0.08 kg (0.18 lbs)	
Connector	WR12 (application specific waveguide flange)	
Environmental data		
Environment	indoor/outdoor	
Operation temperature (°C)	−45 to 85	
RoHS 2011/65/EU	compliant	
IP rating	No	

Ordering information

Description	Item no.	Version
1378.99.0001	85015898	as above

SENCITY® Omni-S



Features:

- Small omni-directional outdoor antenna for WiFi applications
- Supports the 2.4 and 5.8 GHz band
- Rugged design
- Single hole mounting
- Fire retardant acc. to DIN 5510-2, BS 6853, NF F16-101/102, EN 45545-2.

Specifications

Electrical data					
Frequency (MHz)	2400 to 2500	2500 to 2700	3400 to 3700	4900 to 5470	5470 to 5935
VSWR	1.8	2	2	1.8	1.8
Gain (dBi)	6	6	7	8	8

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	75

Mechanical data	
Dimensions (height × width × depth)	50.6 × × mm (1.99 × × in)
Weight	0.3 kg (0.66 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 80
RoHS 2011/65/EU	compliant
IP rating	IP68

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

Ordering information

Description	Item no.	Version
1399.17.0111	84043908	N (female)
1399.17.0108	84040934	N (female) connector with long neck

SENCITY® Omni-S Cellular/LTE (US)



Features:

- Omni-directional cellular/4G LTE (US) SISO antenna
- Rugged and low profile cabinet and pole/wall mount antenna
- Supporting mobile bands LTE 698 to 862 MHz, cellular 1710 to 2170 and LTE 2300, 2500, 2600 MHz bands
- Single hole cabinet or wall/pole mounting
- For outdoor and indoor applications
- Ingress protection IP66/IP67 (IP69k)

Specifications

Electrical data			
Frequency (MHz)	698 to 862	1710 to 2170	2300 to 2690
VSWR	1.8	1.8	1.8
Gain (dBi)	2	5	3

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × diameter)	33.2 × 145 mm (1.31 × 5.7 in)
Weight	0.3 kg (0.66 lbs)
Connector	SMA (male)
Cable type	ENVIROFLEX_316_D

Environmental data	
Environment	outdoor
Operation temperature (°C)	−55 to 85
RoHS 2011/65/EU	compliant

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

Ordering information

Description	Item no.	Version
1399.19.0225	85065467	Pigtail with SMA (male)

SENCITY® Omni-S Cellular/LTE (EUR)



Features:

- Omni-directional cellular/4G LTE (EUR) SISO antenna
- Rugged and low profile cabinet and pole/wall mount antenna
- Supporting mobile bands LTE 790 to 960 MHz, Cellular 1710 to 2170 and LTE 2300, 2500, 2600 MHz bands
- Single hole cabinet or wall/pole mounting
- For outdoor and indoor applications
- Ingress protection IP66/IP67 (IP69k)

Specifications

Electrical data				
Frequency (MHz)	790 to 930	930 to 960	1710 to 2170	2300 to 2690
VSWR	1.8	2.5	1.9	1.6
Gain (dBi)	2	2	6	4

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × diameter)	33.2 × 145 mm (1.31 × 5.7 in)
Weight	0.3 kg (0.66 lbs)
Connector	SMA (male) or N (female)
Cable type	ENVIROFLEX_316_D

Environmental data	
Environment	outdoor
Operation temperature (°C)	−55 to 85
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7044 (grey) or RAL 9010 (white)
Radome material	PC (Polycarbonate)

Ordering information

Description	Item no.	Version
1399.19.0224	85065466	Pigtail with SMA (male), Radome colour RAL 7044 (grey)
1399.17.0245	85084911	Pigtail with N (female), Radome colour RAL 9010 (white)

SENCITY® Omni-S LTE + 2x2 WiFi MIMO



Features:

- Omni-directional Cellular/4G LTE (EUR) SISO and WiFi 2x2 MIMO antenna
- Cellular/LTE 790-960, 1710-2170 and 2300-2690 MHz on one port
- WiFi dual-band 2400-2500, 4900-6000 and 3400-3800 MHz on two further ports
- Rugged and low profile cabinet and pole/wall mount antenna
- Single hole cabinet mounting, for outdoor & indoor applications
- Vandalism proof "IK10" acc. to IEC 62262/2002-02

Specifications

Electrical data	Cellular / LTE SISO			Wifi 2 x 2 MIMO		
Frequency (MHz)	790 to 930	930 to 960	1710 to 2690	2300 to 2690	3400 to 3800	4900 to 5975
VSWR	2.2	2.7	2.0	2.0	1.8	2.0
Gain (dBi)	4	4	5	5	6	6

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height x diameter)	33.2 x 145 mm (1.31 x 5.7 in)
Weight	0.32 kg (0.70 lbs)
Connector	SMA (male) / SMA-reverse (male)
Cable type	ENVIROFLEX_316_D

Environmental data	
Environment	outdoor
Operation temperature (°C)	-55 to 85
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL7044 (grey)
Radome material	PC (Polycarbonate)

Ordering information

Description	Item no.	Version
1399.19.0227	85080441	3 x pigtail with SMA (male)

SENCITY® Omni-S LTE (EUR) + GNSS



Features:

- Omni-directional cellular/LTE and GNSS multi antenna
- Supporting 2G, 3G, 4G LTE 800 MHz up to LTE 2600 MHz
- Cellular/LTE (EUR) vertical polarized radiator for SISO scenario on one port
- Circular polarized GPS/Glonass antenna with LNA on second port
- Rugged and low profile cabinet and pole/wall mount antenna
- Single hole cabinet mounting, for outdoor & indoor applications
- Vandalism proof "IK10" acc. to IEC 62262/2002-02

Specifications

Electrical data	Band				GPS/Glonass
Frequency (MHz)	790 to 930	930 to 960	1710 to 2170	2300 to 2690	1574 to 1610
VSWR	2	2.5	1.7	1.7	1.8
Gain (dBi)	2	2	6	4	

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × diameter)	33.2 × 145 mm (1.31 × 5.7 in)
Weight	0.35 kg (0.77 lbs)
Connector	SMA (male)
Cable type	ENVIROFLEX_316_D

Environmental data	
Environment	outdoor
Operation temperature (°C)	−55 to 85
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL7044 (grey)
Radome material	PC (Polycarbonate)

Ordering information

Description	Item no.	Version
1399.19.0006	85016093	2 × pigtail with SMA (male)

SENCITY® Omni-S 3x3 WiFi MIMO



Features:

- Omni-directional 3x3 WiFi MIMO and LTE 2300, 2600 and 3500 MHz antenna
- Rugged and low profile cabinet and pole/wall mount antenna
- Supports WiFi dual-band 2.4 to 2.5/4.9 to 6 GHz, IEEE 802.11 b/g/a/h/p/n/ac
- And cellular LTE 2300, 2500, 2600 and 3500 MHz band configurations
- Single hole cabinet mounting, for outdoor and indoor applications
- Vandalism proof "IK10" acc. to IEC 62262/2002-02

Specifications

Electrical data				
Frequency (MHz)	2300 to 2500	2500 to 2690	3400 to 3800	4900 to 5975
VSWR	1.7	1.8	2	1.5
Gain (dBi)	1.5	1.5	2	4

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × diameter)	33.2 × 145 mm (1.31 × 5.7 in)
Weight	0.29 kg (0.64 lbs)
Connector	SMA-reverse (male)
Cable type	ENVIROFLEX_316_D

Environmental data	
Environment	outdoor
Operation temperature (°C)	−55 to 85
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL7044 (grey)
Radome material	PC (Polycarbonate)

Ordering information

Description	Item no.	Version
1399.59.0003	85016092	3 × pigtail with SMA-reverse (male)

SENCITY® Omni-S 4x4 WiFi MIMO



Features:

- Omni-directional 4x4 WiFi MIMO and LTE 2300, 2600 and 3500 MHz antenna
- Rugged and low profile cabinet and pole/wall mount antenna
- Supports WiFi dual-band 2.4 to 2.5/4.9 to 6 GHz, IEEE 802.11 b/g/a/h/p/n/ac
- And cellular LTE 2300, 2500, 2600 and 3500 MHz band configurations
- Single hole cabinet mounting, for outdoor and indoor applications
- Vandalism proof "IK10" acc. to IEC 62262/2002-02

Specifications

Electrical data				
Frequency (MHz)	2300 to 2500	2500 to 2690	3400 to 3800	4900 to 5975
VSWR	1.7	1.8	2	1.5
Gain (dBi)	1.5	1.5	2	3.5

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × diameter)	33.2 × 145 mm (1.31 × 5.7 in)
Weight	0.32 kg (0.70 lbs)
Connector	SMA-reverse (male)
Cable type	ENVIROFLEX_316_D

Environmental data	
Environment	outdoor
Operation temperature (°C)	−55 to 85
RoHS 2011/65/EU	compliant

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

Ordering information

Description	Item no.	Version
1399.59.0005	85031687	4 × pigtail with SMA-reverse (male)

SENCITY® Omni-S 4x4 WiFi MIMO (Railway)



Features:

- Small omnidirectional 4x4 MIMO cabinet/ceiling mount antenna
- Supports Wifi 2.4/5 GHz and cellular 2.3/2.6/3.5 GHz bands
- Rugged design, meets EN 50155 railway standard
- Fire retardant acc. to EN 455452 and NFPA130
- Single hole mounting

Specifications

Electrical data				
Frequency (MHz)	2300-2500	2500-2690	3400-3800	4900-5975
VSWR	1.7	1.8	1.8	1.5
Gain (dBi)	3.5	3.5	5	4.5

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height x diameter)	33.2 x 145 mm
Weight	0.9 kg
Connector	N, plug (male)

Environmental data	
Environment	indoor/outdoor
Operation temperature (°C)	-44 to 85
RoHS 2011/65/EU	compliant

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

Ordering information

Description	Item no.	Version
1399.17.0240	85078396	4 x pigtail 0.5 m with N (male)
1399.17.0246	85087896	4 x pigtail 1.5 m with N (male), lower gain

SENCITY® Omni-S



Features:

- Small omni-directional indoor antenna for WiFi applications
- Rugged design, meets EN 50155 railway standard
- Fire retardant acc. to DIN 5510-2, BS 6853, EN 45545-2
- Protection against lightning

Specifications

Electrical data					
Frequency (MHz)	2400 to 2500	2500 to 2700	3400 to 3700	4900 to 5470	5470 to 5935
VSWR	1.8	2	2	1.8	1.8
Gain (dBi)	6	6	7	8	8

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	75

Mechanical data	
Dimensions (height × diameter)	43 × 86 mm (1.69 × 3.4 in)
Weight	0.3 kg (0.66 lbs)
Connector	N (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	−40 to 80
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7035 (light-grey)
Radome material	PC (Polycarbonate)

Ordering information

Description	Item no.	Version
1399.17.0106	84039156	N (female)

SENCITY® Omni-S



Features:

- Small omni-directional indoor antenna for WiFi applications
- Rugged design, meets EN 50155 railway standard
- Fire retardant acc. to DIN 5510-2, BS 6853, EN 45545-2
- Single hole mounting

Specifications

Electrical data	
Frequency (MHz)	4900 to 5935
VSWR	1.5
Gain (dBi)	3
3 dB beamwidth (h) (°)	360
3 dB beamwidth (v) (°)	25

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	75

Mechanical data	
Dimensions (height × diameter)	43 × 86 mm (1.69 × 3.39 in)
Weight	0.3 kg (0.66 lbs)
Connector	N (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	−40 to 80
RoHS 2011/65/EU	compliant

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

Ordering information

Description	Item no.	Version
1356.17.0043	84027318	N (female)

SENCITY® Omni-S



Features:

- Omni-directional broad-band WiFi antenna
- Dual-band IEEE 802.11 a/b/g/h
- Broad-band 2.4 to 6 GHz
- WLAN, LTE 2.6, WiMax
- For indoor application

Specifications

Electrical data			
Frequency (MHz)	2400 to 2500	2500 to 4900	4900 to 6000
VSWR	1.6	1.5	1.5
Gain (dBi)	4	4	7.5
3 dB beamwidth (h) (°)	360	360	360

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × diameter)	43 × 86 mm (1.69 × 3.39 in)
Weight	0.3 kg (0.66 lbs)
Connector	SMA (female) or N (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	−40 to 80
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7035 (light-grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1399.19.0024	84000441	SMA (female)
1399.17.0040	84000442	N (female)

SENCITY® Omni-S



Features:

- Planar indoor DECT antenna
- Polarisation: linear vertical
- Working range: 1880 to 1930 MHz
- Half power beamwidth: 100° vertical, 360° horizontal; 2 dBi Gain

Specifications

Electrical data	
Frequency (MHz)	1880 to 1930
VSWR	1.5
Gain (dBi)	2
3 dB beamwidth (h) (°)	360
3 dB beamwidth (v) (°)	100

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × diameter)	43 × 86 mm (1.69 × 3.39 in)
Weight	0.3 kg (0.66 lbs)
Connector	SMA (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	−40 to 80
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 9010 (white)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1319.19.0028	84011462	SMA (female)

SENCITY® Omni-S



Features:

- SENCITY® Omni-S 2.4 GHz antenna
- 802.11 a/b/g
- Small omni-directional indoor antenna for WiFi applications
- Rugged design, meets EN 50155 railway standard
- Fire retardant acc. to DIN 5510-2, BS 6853, EN 45545-2
- Single hole mounting

Specifications

Electrical data	
Frequency (MHz)	2400 to 2500
VSWR	1.5
Gain (dBi)	4
General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	75
Mechanical data	
Dimensions (height × diameter)	43 × 86 mm (1.69 × 3.4 in)
Weight	0.3 kg (0.66 lbs)
Connector	N (female)
Environmental data	
Environment	indoor
Operation temperature (°C)	−40 to 80
RoHS 2011/65/EU	compliant
Material data	
Radome colour	RAL 9010 (white)
Radome material	PC (Polycarbonate)

Ordering information

Description	Item no.	Version
1324.17.0071	84027317	N (female)

SENCITY® Omni-S MIMO



Features:

- Small omni-directional MIMO indoor antenna for WiFi applications
- Supports the 2.4 GHz and 5 GHz bands
- Rugged design, meets EN 50155 railway standard
- Fire retardant acc. to DIN 5510-2, BS 6853, EN 45545-2

Specifications

Electrical data		
Frequency (MHz)	2400 to 2690	5150 to 5935
VSWR	1.5	1.5
Gain (dBi)	4	6
Isolation (dB)	20	20
3 dB beamwidth (h) (°)	360	360

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	31 × 91.8 × 281.8 mm (1.22 × 3.61 × 11.09 in)
Weight	0.32 kg (0.70 lbs)
Connector	QMA (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant

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

Ordering information

Description	Item no.	Version
1399.35.0002	84123697	3 × QMA (female)

SENCITY® Omni-S MIMO



Features:

- Small omni-directional MIMO antenna for WiFi + LTE 2600 applications
- Dual band WiFi / WLAN and LTE 2600 3 × 3 MIMO antenna
- Supports the 2.4 GHz and 5 GHz and LTE 2.5 to 2.7 GHz bands
- Three ports each with broad-band antenna radiator technology
- IEEE 802.11 b/g/a/h/p and 802.11 n/ac
- For industrial indoor environment - IP65 protected
- 3 × 3 WiFi dual-band MIMO antenna with three ports QMA (female)

Specifications

Electrical data		
Frequency (MHz)	2400 to 2690	5150 to 5935
VSWR	1.7	1.7
Gain (dBi)	4	6
General data		
Nominal impedance (Ω)	50	
Polarisation	vertical	
Composite power max. (W)	10	
Mechanical data		
Dimensions (height × width × depth)	32 × 282 × 92 mm (1.26 × 11.10 × 3.62 in)	
Weight	0.32 kg (0.70 lbs)	
Connector	QMA (female)	
Environmental data		
Environment	indoor	
Operation temperature (°C)	−40 to 85	
RoHS 2011/65/EU	compliant	
Material data		
Radome colour	RAL 7044 (grey)	
Radome material	PC (Polycarbonate)	

Ordering information

Description	Item no.	Version
1399.35.0004	85013265	3 × QMA (female)

SENCITY® Omni-S MIMO



Features:

- Small omni-directional MIMO antenna for WiFi + LTE 2600 applications
- Dual band WiFi/WLAN and LTE 2600 3 × 3 MIMO antenna
- Supports the 2.4 GHz and 5 GHz and LTE 2.5 to 2.7 GHz bands
- Three ports each with broad-band antenna radiator technology
- IEEE 802.11 b/g/a/h/p and 802.11 n/ac
- For industrial indoor environment - IP65 protected
- 3 × 3 WiFi dual-band MIMO antenna with three pigtail ports N (male)

Specifications

Electrical data		
Frequency (MHz)	2400 to 2690	5150 to 5935
VSWR	1.7	1.7
Gain (dBi)	5	6
Isolation (dB)	20	20
3 dB beamwidth (h) (°)	360	360
3 dB beamwidth (v) (°)	65	65

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	32 × 282 × 92 mm (1.26 × 11.10 × 3.62 in)
Weight	0.6 kg (1.32 lbs)
Connector	N (male) or SMA reverse (male)
Cable type	S_04262_D-09

Environmental data	
Environment	indoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP65

Material data	
Radome colour	RAL 9010 (white)

Ordering information

Description	Item no.	Version
1399.17.0208	84076853	3 pigtails N (male)
1399.99.0125	84127107	3 pigtails SMA reverse (male)

SENCITY® Omni-S SC



Features:

- Outdoor omni-directional antenna for small cells
- 2 × 2 Cellular MIMO 1710 up to 5850 MHz

Specifications

Electrical data			
Frequency (MHz)	1710 to 2700	3400 to 3800	5150 to 5850
VSWR	2	2	2
Gain (dBi)	4.5	5.5	5.5
Isolation (dB)	15	15	15

General data	
Nominal impedance (Ω)	50
IMD level (dBc)	−150 at 2 × 37 dBm
Polarisation	vertical
Composite power max. (W)	30

Mechanical data	
Dimensions (height × diameter)	33.2 × 145 mm (1.31 × 5.7 in)
Weight	0.32 kg (0.70 lbs)
Connector	N (female)
Cable type	SUCOFORM_122_LA_CU_CMP

Environmental data	
Environment	outdoor
Operation temperature (°C)	−55 to 85
RoHS 2011/65/EU	compliant

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

Ordering information

Description	Item no.	Version
1399.31.0003	85095458	2 × 4.3-10 (female)
1399.17.0242	85073495	2 × N (female)

SENCITY® Omni-S SC



Features:

- Outdoor omni-directional antenna for small cells
- 2 × 2 Cellular MIMO 1710 up to 5850 MHz and 2 × 2 WiFi MIMO 2.4 GHz and 5 GHz

Specifications

Electrical data	Cellular ports			WiFi ports	
Frequency (MHz)	1710 to 2700	3400 to 3800	5150 to 5850	2400 to 2500	5150 to 5975
VSWR	2	2	2	1.8	1.8
Gain (dBi)	4.5	5.5	5.5	3.5	5
Isolation (dB)	15	15	15	15	18

General data	
Nominal impedance (Ω)	50
IMD level (dBc)	−150 at 2 × 37 dBm
Polarisation	vertical
Composite power max. (W)	30

Mechanical data	
Dimensions (height × diameter)	33.2 × 145 mm (1.31 × 5.7 in)
Weight	0.32 kg (0.70 lbs)
Connector	N (female)
Cable type	SUCOFORM_122_LA_CU_CMP

Environmental data	
Environment	outdoor
Operation temperature (°C)	−55 to 85
RoHS 2011/65/EU	compliant

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

Ordering information

Description	Item no.	Version
1399.31.0013	85095459	4 × 4.3-10 (female)
1399.17.0243	85080773	4 × N (female)

SENCITY® Omni-S stick



Features:

- Omni-directional WiFi antenna
- IEEE 802.11 a/h, frequency band: 5.15 to 5.875 GHz
- Wireless LAN/Wi-Fi WLAN
- In- and outdoor applications - IP67
- Pole/mast and wall mount

Specifications

Electrical data	
Frequency (MHz)	5150 to 5875
VSWR	1.7
Gain (dBi)	5
3 dB beamwidth (h) (°)	360
3 dB beamwidth (v) (°)	25

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	6

Mechanical data	
Dimensions (height × diameter)	191 × 16 mm (7.52 × 0.63 in)
Weight	0.1 kg (0.22 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	-45 to 70
RoHS 2011/65/EU	compliant
IP rating	IP67

Material data	
Radome colour	RAL 9002 (grey-white)
Radome material	PP (Polypropylene)

Ordering information

Description	Item no.	Version
1356.17.0067	84066836	N (female)

SENCITY® Omni-S stick



Features:

- Omni-directional multiband antenna for GSM 1800, GSM/PCS 1900, UMTS, LTE 2300, 2500 and 2600, also WLAN IEEE 802.11 b/g WiFi 2400 to 2500 MHz
- Gain 2 dBi, vertical polarized antenna
- Ingress protection IP67 (IEC 60529)
- For outdoor and indoor applications
- Pole or wall mount

Specifications

Electrical data	
Frequency (MHz)	1710 to 2690
VSWR	1.8
Gain (dBi)	2
3 dB beamwidth (h) (°)	360
3 dB beamwidth (v) (°)	65

General data	
Nominal impedance (Ω)	50
IMD level (dBc)	-145 at 2 × 30 dBm
Polarisation	vertical
Composite power max. (W)	25

Mechanical data	
Dimensions (height × diameter)	120 × 22 mm (4.72 × 0.87 in)
Weight	0.3 kg (0.66 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	-40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP67

Material data	
Radome colour	RAL 9003 (signal white)
Radome material	glass fiber

Ordering information

Description	Item no.	Version
1399.17.0232	85026688	N (female)

SENCITY® Omni-S stick



Features:

- Omni-directional multiband antenna for GSM 1800, GSM/PCS 1900, UMTS, LTE 2300, 2500 and 2600, also WLAN IEEE 802.11 b/g WiFi 2400 to 2500 MHz
- Gain 2 dBi, vertical polarized antenna
- Ingress protection IP67 (IEC 60529)
- For outdoor and indoor applications
- Pole or wall mount

Specifications

Electrical data	
Frequency (MHz)	1710 to 2690
VSWR	1.8
Gain (dBi)	2
3 dB beamwidth (h) (°)	360
3 dB beamwidth (v) (°)	65

General data	
Nominal impedance (Ω)	50
IMD level (dBc)	-145 at 2 × 30 dBm
Polarisation	vertical
Composite power max. (W)	25

Mechanical data	
Dimensions (height × diameter)	120 × 22 mm (4.72 × 0.87 in)
Weight	0.3 kg (0.66 lbs)
Connector	N (male)

Environmental data	
Environment	outdoor
Operation temperature (°C)	-40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP67

Material data	
Radome colour	RAL 9003 (signal white)
Radome material	glass fiber

Ordering information

Description	Item no.	Version
1399.17.0237	85065352	N (male)

SENCITY® Omni-S broad band WiFi stick



Features:

- Broad band omni-directional WiFi and mobile antenna for 1710 up to 6000 MHz
- WLAN 2400 to 2500 MHz and 5150 to 6000 MHz;
WiFi IEEE 802.11 a/b/g/h/p and n
- Mobile/cellular 1710 to 2200 MHz
- LTE 2300, LTE 2500 and LTE 2700 MHz/WiMax 3400 to 3800 MHz
- Small and robust outdoor stick antenna IP66/IP68/IP69K
- Direct mount on N type connector of wireless access points or clients

Specifications

Electrical data					
Frequency (MHz)	1710 to 2000	2000 to 2700	2700 to 3800	4900 to 5150	5150 to 6000
VSWR	2	2	2	2	2
Gain (dBi)	1.5	2	1.5	2.5	2
3 dB beamwidth (h) (°)	360	360	360	360	360

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × diameter)	55 × 21 mm (2.17 × 0.83 in)
Weight	0.05 kg (0.11 lbs)
Connector	N (male)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP69K

Material data	
Radome colour	RAL 7043 (dark grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)

Ordering information

Description	Item no.	Version
1399.17.0224	85012283	N (male)

SENCITY® Omni-M stick



Features:

- Omni-directional multiband antenna for LTE 800, GSM 900, GSM 1800, GSM/PCS 1900, UMTS, LTE 2300 and 2600; WLAN 802.11 b/g WiFi 2400 MHz band
- Gain 2/3 dBi, vertical polarized antenna
- Ingress protection IP67 (IEC 60529)
- For outdoor and indoor applications
- L-bracket (AISI 316L) for pole or wall mounting scenario included

Specifications

Electrical data		
Frequency (MHz)	790 to 960	1710 to 2690
VSWR	2	1.9
Gain (dBi)	2	3
General data		
Nominal impedance (Ω)	50	
IMD level (dBc)	−143 at 2 × 30 dBm	
Polarisation	vertical	
Composite power max. (W)	25	
Mechanical data		
Dimensions (height × diameter)	263 × 32 mm (10.35 × 1.25 in)	
Weight	0.4 kg (0.88 lbs)	
Connector	N (female)	
Environmental data		
Environment	outdoor	
Operation temperature (°C)	−40 to 85	
RoHS 2011/65/EU	compliant	
IP rating	IP67	
Material data		
Radome colour	RAL 9003 (signal white)	
Radome material	Glass Fibre	

Ordering information

Description	Item no.	Version
1399.17.0231	85027954	N (female)

SENCITY® Omni-M dual-band WiFi stick



Features:

- Omni-directional dual-band WiFi stick antenna
- IEEE 802.11 b/g/a/h/p for 2.3 to 2.5 GHz and 4.8 to 6.1 GHz
- WiFi wireless LAN/ WLAN
- Gain 6 dBi, vertical polarized antenna
- Ingress protection IP67 (IEC 60529)
- For outdoor and indoor applications
- Direct WiFi access-point mount on female N connector

Specifications

Electrical data			
Frequency (MHz)	2300 to 2500	4800 to 5150	5150 to 6100
VSWR	1.5	1.7	1.7
Gain (dBi)	6	5	6
3 dB beamwidth (h) (°)	360	360	360
3 dB beamwidth (v) (°)	20	12	12

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	25

Mechanical data	
Dimensions (height × diameter)	250 × 25 mm (9.84 × 0.98 in)
Weight	0.15 kg (0.33 lbs)
Connector	N (male)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP67

Material data	
Radome colour	RAL 9003 (signal white)
Radome material	Glass Fibre

Ordering information

Description	Item no.	Version
1355.17.0002	85027480	N (male)

SENCITY® Omni-M dual-band WiFi stick



Features:

- Omni-directional dual-band WiFi stick antenna
- IEEE 802.11 b/g/a/h/p for 2.3 to 2.5 GHz and 4.8 to 6 GHz
- WiFi wireless LAN/ WLAN
- Gain 6 dBi, vertical polarized antenna
- Ingress protection IP67 (IEC 60529)
- For outdoor and indoor applications
- Wall- or pole mount with L-bracket

Specifications

Electrical data			
Frequency (MHz)	2300 to 2500	4800 to 5150	5150 to 6000
VSWR	1.5	1.7	1.7
Gain (dBi)	6	5	6
3 dB beamwidth (h) (°)	360	360	360
3 dB beamwidth (v) (°)	20	12	12

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	25

Mechanical data	
Dimensions (height × diameter)	240 × 25 mm (9.45 × 0.98 in)
Weight	0.3 kg (0.66 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP67

Material data	
Radome colour	RAL 9003 (signal white)
Radome material	Glass Fibre

Ordering information

Description	Item no.	Version
1355.17.0003	85031665	N (female)

SENCITY® Omni-M stick



Features:

- Omni-directional WiFi stick antenna
- IEEE 802.11 b/g, frequency band 2.4 to 2.5 GHz
- WiFi wireless LAN/ WLAN
- Gain 6 dBi, vertical polarized antenna
- Ingress protection IP67 (IEC 60529)
- For outdoor and indoor applications
- Pole or wall mount

Specifications

Electrical data	
Frequency (MHz)	2400 to 2500
VSWR	1.8
Gain (dBi)	6
3 dB beamwidth (h) (°)	360
3 dB beamwidth (v) (°)	30

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	25

Mechanical data	
Dimensions (height × diameter)	250 × 19 mm (9.84 × 0.75 in)
Weight	0.3 kg (0.66 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP67

Material data	
Radome colour	RAL 9003 (signal white)
Radome material	Glass Fibre

Ordering information

Description	Item no.	Version
1324.17.0114	85026220	N (female)

SENCITY® Omni-L DECT stick



Features:

- Omni-directional stick antenna for DECT applications
- 1880 to 1930 MHz
- Gain 7 dBi, vertical polarized antenna
- Ingress protection IP67 (IEC 60529)
- For outdoor and indoor applications
- Pole or wall mount

Specifications

Electrical data	
Frequency (MHz)	1880 to 1930
VSWR	1.5
Gain (dBi)	7
3 dB beamwidth (h) (°)	360
3 dB beamwidth (v) (°)	20

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	25

Mechanical data	
Dimensions (height × diameter)	500 × 20 mm (19.69 × 0.79 in)
Weight	0.4 kg (0.88 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP67

Material data	
Radome colour	RAL 9003 (signal white)
Radome material	Glass Fibre

Ordering information

Description	Item no.	Version
1319.17.0121	85027403	N (female)

SENCITY® Optima



Features:

- Indoor DAS omni-directional antenna for in-building coverage
- Ultra broad band, multi band
- 6 dBi gain
- 690 to 6400 MHz
- AMPS, GSM, PCS, CDMA, UMTS, WiFi, WLAN 2.4 and 5.6 GHz, WiMAX, LTE

Specifications

Electrical data						
Frequency (MHz)	690 to 1100	1100 to 1710	1710 to 2700	2700 to 3800	3800 to 5150	5150 to 6400
VSWR	2	1.5	1.7	1.6	1.8	1.8
Gain (dBi)	2	6	6	6	7	8

General data	
Nominal impedance (Ω)	50
IMD level (dBc)	-150 at 2 × 30 dBm
Polarisation	vertical
Composite power max. (W)	50

Mechanical data	
Dimensions (height × diameter)	69 × 321mm (2.72 × × in)
Weight	1 kg (2.20 lbs)
Connector	N (female) or 4.3-10 (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	0 to 55
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 9010 (white)
Radome material	ABS (Acrylonitrile butadiene styrene)
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1399.17.0114	84048165	N (female)
1399.17.0144	85024300	Plenum pigtail, N (female)
1399.31.0006	85077731	Plenum pigtail, 4.3-10 (female)

SENCITY® Rail



Features:

- Railway rooftop antenna for GSM 900, GSM 1800, GSM 1900, UMTS, WiFi and WiMAX 2.4, 3.5, 5.3 and 5.8 GHz bands
- Rugged design, meets EN 50155 railway standard
- Fire retardant acc. to DIN 5510-2, BS 6853, NF F16-101/102, EN 45545-2.
- Works also on non-metallic surfaces

Specifications

Electrical data					
Frequency (MHz)	870 to 960	1710 to 2170	2400 to 2700	3400 to 3700	5150 to 5875
VSWR	1.5	1.5	1.5	1.5	1.8
Gain (dBi)	6	8.5	9.5	9.5	8.5
General data					
Nominal impedance (Ω)	50				
Polarisation	vertical				
Composite power max. (W)	100				
Mechanical data					
Dimensions (height × width × depth)	90 × 100 × 260 mm (3.54 × 3.94 × 10.24 in)				
Weight	1.1 kg (2.42 lbs)				
Connector	N (female)				
Environmental data					
Environment	outdoor				
Operation temperature (°C)	−40 to 85				
RoHS 2011/65/EU	compliant				
IP rating	IP68				
Material data					
Radome colour	RAL 7043 (dark grey)				
Radome material	ASA (acrylic ester-styrene-acrylonitrile)				
Back/base plate colour	RAL 7043 (dark grey)				
Back/base plate material	Aluminium				

Ordering information

Description	Item no.	Version
1399.17.0039	23041568	as above
1399.17.0043	84002817	additional embedded GPS
1399.17.0044	84002818	additional embedded GPS & LNA

SENCITY® Rail



Features:

- Railway rooftop antenna for GSM-R 900
- Rugged design, meets EN 50155 railway standard
- Fire retardant acc. to DIN 5510-2, BS 6853, NF F16-101/102, EN 45545-2
- Works also on non-metallic surfaces

Specifications

Electrical data	
Frequency (MHz)	806 to 960
VSWR	1.5
Gain (dBi)	6
General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	100
Mechanical data	
Dimensions (height × width × depth)	90 × 100 × 260 mm (3.54 × 3.94 × 10.24 in)
Weight	1.1 kg (2.42 lbs)
Connector	N (female)
Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP68
Material data	
Radome colour	RAL 7043 (dark grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1309.17.0093	84065220	N (female)

SENCITY® Rail



Features:

- Railway rooftop antenna for GSM 900, GSM 1800, GSM 1900, UMTS, LTE, WiFi and WiMAX 2.4, 3.5, 5.3 and 5.8 GHz bands
- Rugged design, meets EN 50155 railway standard
- Fire retardant acc. to DIN 5510-2, BS 6853, NF F16-101/102, EN 45545-2
- Works also on non-metallic surfaces
- Split installation support
- Versional grounding kit available
- Versional conduit support kit available to protect the cabling

Specifications

Electrical data

Frequency (MHz)	694 to 790	790 to 960	1350 to 1710	1710 to 2700	2700 to 3300	3300 to 4900	4900 to 6425
VSWR	2.0	1.5	2.2	1.5	1.5	1.7	1.5
Gain (dBi)	5	5	76	6	8.5	7	7

General data

Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	100

Mechanical data

Dimensions (height × width × depth)	90 × 100 × 256 mm (3.54 × 3.94 × 10.08 in)
Weight	0.8 kg (1.76 lbs)
Connector	N (female)

Environmental data

Environment	outdoor
Operation temperature (°C)	−45 to 85
RoHS 2011/65/EU	compliant
IP rating	IP66/IP68

Material data

Radome colour	RAL 7043 (dark grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1399.17.0122	84071876	as above
1399.99.0120	84071811	with additional embedded GPS & LNA
1399.99.0121	84071812	with additional embedded GPS & LNA, lower temperature limit −55 °C

SENCITY® Rail



Features:

- Railway rooftop antenna for Tetra, DVB-T, GSM 900, GSM 1800, GSM 1900, UMTS, LTE, WiFi and WiMAX 2.4, 3.5, 5.3 and 5.8 GHz bands
- Rugged design, meets EN 50155 railway standard
- Split installation support
- Versional grounding kit available
- Versional conduit support kit available to protect the cabling
- Fire retardant acc. to DIN 5510-2, BS 6853, NF F16-101/102, EN 45545-2

Specifications

Electrical data						
Frequency (MHz)	380 to 694	694 to 960	1350 to 2700	2700 to 3300	3300 to 4900	4900 to 6425
VSWR	1.8	1.8	1.5	1.5	1.7	1.5
Gain (dBi)	3	4	7.5	6.5	7.0	8.0

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	100

Mechanical data	
Dimensions (height × width × depth)	153 × 100 × 256 mm (6.02 × 3.94 × 10.08 in)
Weight	1.6 kg (3.52 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP69K

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

Ordering information

Description	Item no.	Version
1399.17.0094	84029691	N (female)
1399.99.0026	84069929	with additional embedded GPS & LNA

SENCITY® Rail



Features:

- Railway rooftop antenna for GSM 900, GSM 1800, GSM 1900, UMTS, LTE and WiFi 2.4 GHz Band communication
- Rugged design, meets EN 50155 railway standard
- Extremely low profile (40 mm)
- Fire retardant acc. to DIN 5510-2, BS 6853, NF F16-101/102, EN 45545-2

Specifications

Electrical data					
Frequency (MHz)	790 to 806	806 to 870	870 to 960	1350 to 2700	4900 to 6425
VSWR	2.2	1.9	1.6	2.0	2.1
Gain (dBi)	5	5	5	5	8

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	100

Mechanical data	
Dimensions (height × width × depth)	40 × 100 × 145 mm (1.57 × 3.94 × 5.71 in)
Weight	0.488 kg (1.07 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP69K

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

Ordering information

Description	Item no.	Version
1399.17.0125	84080683	as above
1399.99.0032	84076252	with additional embedded GNSS
1399.99.0037	84080682	with additional embedded GNSS & LNA

SENCITY® Rail MIMO



Features:

- Railway rooftop antenna for 2G/3G/4G cellular and WiFi 2.4 and 5 GHz bands
- Supports 2 × 2 cellular MIMO for UMTS and LTE
- Rugged design, meets EN 50155 railway standard
- Fire retardant acc. to DIN 5510-2, BS 6853, NF F16-101/102, EN 45545-2
- Extremely low profile (40 mm)

Specifications

Electrical data					
Frequency (MHz)	790 to 806	806 to 870	870 to 960	1350 to 2700	4900 to 6425
VSWR	2.2	1.9	1.5	1.9	2.0
Gain (dBi)	5	5	5	6	7.5
Isolation (dB)	18	18	18	18	30

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	40 × 100 × 465 mm (1.57 × 3.94 × 18.31 in)
Weight	1.2 kg (2.64 lbs)
Connector	2 × N (female)
Cable type	ENVIROFLEX_316_D

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP69K

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

Ordering information

Description	Item no.	Version
1399.17.0135	85022993	as above
1399.99.0057	85022991	with additional embedded GNSS & LNA
1399.99.0052	85022992	with additional embedded GNSS

SENCITY® Rail MIMO



Features:

- Railway rooftop antenna for 2G/3G/4G cellular and WiFi 2.4 and 5 GHz bands
- Supports 2 × 2 cellular MIMO for UMTS and LTE
- Rugged design, meets EN 50155 railway standard
- Fire retardant acc. to BS 6853, NF F16-101/102, EN 45545-2
- Works also on non-metallic surfaces

Specifications

Electrical data						
Frequency (MHz)	694 to 790	790 to 960	1350 to 2700	2700 to 3300	3300 to 4900	4900 to 6425
VSWR	1.7	1.7	1.8	2.0	2.1	1.8
Gain (dBi)	5	6.0	7.5	6.5	6.5	8.0
Isolation (dB)	15	15	20	25	25	35

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	81.6 × 102.5 × 352.5 mm (3.21 × 4.04 × 13.88 in)
Weight	1.5 kg (3.30 lbs)
Connector	2 × N (female)
Cable type	ENVIROFLEX_142

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP69K

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

Ordering information

Description	Item no.	Version
1399.17.0222	85004646	as above
1399.99.0130	85002237	with additional embedded GNSS & LNA
1399.17.0221	85088375	NFPA130 compliant
1399.99.0147	85082476	NFPA130 compliant with additional embedded GNSS & LNA
1399.99.0148	85085125	Two separate WiFi ports with additional embedded GNSS & LNA

SENCITY® Rail Excel



Features:

- Railway rooftop directional antenna for WiFi and WiMAX bands
- High gain
- Rugged design, meets EN 50155 railway standard
- Fire retardant acc. to DIN 5510-2, BS 6853, NF F16-101/102, EN 45545-2
- Works also on non-metallic surfaces

Specifications

Electrical data		
Frequency (MHz)	4900 to 5150	5150 to 5975
VSWR	1.6	1.7
Gain (dBi)	12	12
3 dB beamwidth (h) (°)	48	48
3 dB beamwidth (v) (°)	17	16

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	100

Mechanical data	
Dimensions (height × width × depth)	90 × 100 × 260 mm (3.54 × 3.94 × 10.24 in)
Weight	1.4 kg (3.08 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP66

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

Ordering information

Description	Item no.	Version
1356.17.0010	84012128	N (female)

SENCITY® Rail Excel



Features:

- Railway rooftop 2 ports bi-directional antenna for WiFi and WiMAX bands
- High gain
- Rugged design, meets EN 50155 railway standard
- Fire retardant acc. to DIN 5510-2, BS 6853, NF F16-101/102, EN 45545-2
- Works also on non-metallic surfaces

Specifications

Electrical data				
Frequency (MHz)	4900 to 5150	5150 to 5470	5470 to 5725	5725 to 5935
VSWR	1.7	1.6	1.6	1.6
Gain (dBi)	11.5	11.5	11.5	11.5
3 dB beamwidth (h) (°)	47	43	36	35
3 dB beamwidth (v) (°)	20	17	17	19

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	50

Mechanical data	
Dimensions (height × width × depth)	90 × 260 × 100 mm (3.54 × 10.24 × 3.94 in)
Weight	1.4 kg (3.08 lbs)
Connector	2 × N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP66/IP68

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

Ordering information

Description	Item no.	Version
1356.17.0042	84027010	2 × N (female)

SENCITY® Rail Excel



Features:

- Railway rooftop directional antenna for WiFi and WiMAX bands
- High gain
- Rugged design, meets EN 50155 railway standard
- Fire retardant acc. to BS 6853, EN 45545-2
- Works also on non-metallic surfaces

Specifications

Electrical data				
Frequency (MHz)	2400 to 2550	2550 to 2590	2590 to 2630	2630 to 2650
VSWR	1.5	1.5	1.5	1.5
Gain (dBi)	14.5	13.5	12.5	11.5
3 dB beamwidth (h) (°)	40	33	32	31
3 dB beamwidth (v) (°)	22	21	21	21

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	50

Mechanical data	
Dimensions (height × width × depth)	85 × 100 × 510 mm (3.35 × 3.94 × 20.08 in)
Weight	2.2 kg (4.84 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP65/IP67

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

Ordering information

Description	Item no.	Version
1324.17.0089	84035488	N (female)

SENCITY® Rail Excel



Features:

- Railway rooftop 2 ports bi-directional antenna for WiFi and WiMAX bands
- High gain
- Rugged design, meets EN 50155 railway standard
- Works also on non-metallic surfaces
- Fire retardant acc. to BS 6853, EN 45545-2

Specifications

Electrical data				
Frequency (MHz)	2400 to 2484	2484 to 2550	2550 to 2600	2600 to 2630
VSWR	1.5	1.5	1.5	1.5
Gain	13.5	13	12	11
3 dB beamwidth (h) (°)	51	51	52	45
3 dB beamwidth (v) (°)	24	25	23	24

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	50

Mechanical data	
Dimensions (height × width × depth)	85 × 100 × 510 mm (3.35 × 3.94 × 20.08 in)
Weight	2.2 kg (4.84 lbs)
Connector	2 × N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP65/IP67

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

Ordering information

Description	Item no.	Version
1324.17.0070	84027011	2 × N (female)

SENCITY® Road



Features:

- Rugged vehicle rooftop multi-band antenna for heavy duty vehicles like bus and truck
- Supports cellular, WiFi 2.4, 5 GHz and IEEE 802.11p, GPS/Glonass
- Offers separate connector for each application
- Single hole mounting, easy cabling feed-through
- Works also on non-metallic surfaces

Specifications

Electrical data	Band					GPS/Glonass
Frequency (MHz)	698 to 790	790 to 960	1710 to 2690	1710 to 2690	4900 to 5935	1574 to 1610
VSWR	2.1	1.8	2	1.8	1.8	2
Gain (dBi)	5	5	4	6	7	
Isolation (dB)			20	20		

General data	
Nominal impedance (Ω)	50
Polarisation	vertical, vertical, circular right
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	82 × 83 × 208 mm (3.23 × 3.27 × 8.19 in)
Weight	0.38 kg (0.84 lbs)
Connector	SMA (male), SMA (female), TNC (male)
Cable type	ENVIROFLEX_316

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP68/IP69K

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

Ordering information

Description	Item no.	Version
1399.99.0126	84145275	SMA (male), SMA (female), TNC (male)

SENCITY® Road



Features:

- Rugged vehicle rooftop multi-band antenna for heavy duty vehicles like bus and truck
- Supports cellular, WiFi 2.4, 5 GHz and IEEE 802.11p, GPS/Glonass
- Offers a stick antenna socket and separate connector for each application
- Single hole mounting, easy cabling feed-through
- Works also on non-metallic surfaces

Specifications

Electrical data	Band					GPS/Glonass
Frequency (MHz)	698 to 790	790 to 960	1710 to 2690	1710 to 2690	4900 to 5935	1574 to 1610
VSWR	2.1	1.8	2	1.8	1.8	2
Gain (dBi)	5	5	4	6	7	
Isolation (dB)			20	20	30	

General data	
Nominal impedance (Ω)	50
Polarisation	vertical, vertical, circular right
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	82 × 83 × 208 mm (3.23 × 3.27 × 8.19 in)
Weight	0.41 kg (0.90 lbs)
Connector	SMA (male), SMA (female), TNC (male)
Cable type	ENVIROFLEX_316

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP68/IP69K

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

Ordering information

Description	Item no.	Version
1399.99.0039	84089087	SMA (male), SMA (female), TNC (male)

SENCITY® Road



Features:

- Rugged vehicle rooftop multi-band antenna for heavy duty vehicles like bus and truck
- Supports TETRA, WiFi 2.4, 5 GHz and IEEE 802.11p, GPS/Glonass
- Offers a stick antenna socket and separate connector for each application
- Single hole mounting, easy cabling feed-through.

Specifications

Electrical data	Band			GPS/Glonass
Frequency (MHz)	410 to 430	2400 to 2690	4900 to 5935	1574 to 1610
VSWR	2	1.8	1.8	2
Gain (dBi)	4	7	7	
Isolation (dB)	20	20	20	

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	82 × 83 × 208 mm (3.23 × 3.27 × 8.19 in)
Weight	0.41 kg (0.90 lbs)
Connector	SMA (male) or (female), TNC (male), TNC (female)
Cable type	ENVIROFLEX_316

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP68/IP69K

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

Ordering information

Description	Item no.	Version
1399.99.0127	84145481	SMA (male) or (female), TNC (male), TNC (female)

SENCITY® Road MIMO



Features:

- Rugged vehicle rooftop multi-band antenna for heavy duty vehicles like bus and truck
- Supports WiFi 2.4, 5 GHz and IEEE 802.11p in 3 × 3 MIMO configurations
- Single hole mounting, easy cabling feed-through
- Works also on non-metallic surfaces

Specifications

Electrical data		
Frequency (MHz)	2400 to 2690	4900 to 5935
VSWR	1.8	1.8
Gain (dBi)	6	7
Isolation (dB)	14	22

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	82 × 83 × 208 mm (3.23 × 3.27 × 8.19 in)
Weight	0.41 kg (0.90 lbs)
Connector	3 × SMA (female)
Cable type	ENVIROFLEX_316_D

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP68/IP69K

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

Ordering information

Description	Item no.	Version
1399.99.0128	85004617	3 × SMA (female)

SENCITY® Road MIMO



Features:

- Rugged vehicle rooftop multi-band antenna for heavy duty vehicles like bus and truck
- Supports 2G/3G/4G cellular bands in 2 × 2 MIMO configurations
- Single hole mounting, easy cabling feed-through

Specifications

Electrical data				
Frequency (MHz)	698 to 790	790 to 960	1710 to 2170	2400 to 2690
VSWR	2.2	2	2	2
Gain (dBi)	4	4	6	6
Isolation (dB)	12	12	15	15

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	88 × 83 × 208 mm (3.46 × 3.27 × 8.19 in)
Weight	0.4 kg (0.88 lbs)
Connector	2 × SMA (male)
Cable type	ENVIROFLEX_316

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
IP rating	IP68/IP69K

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

Ordering information

Description	Item no.	Version
1399.99.0119	85021510	as above
1399.99.0129	85004616	with additional embedded GNSS & LNA

SENCITY® Rondo



Features:

- Indoor DAS omni-directional antenna for In-building coverage
- 698 to 3800 MHz
- AMPS, GSM, PCS, CDMA, UMTS, WiFi, WLAN 2.4, LTE
- ETL tested for Plenum space (UL 2043)
- Patented design

Specifications

Electrical data					
Frequency (MHz)	698 to 790	790 to 960	1710 to 2170	2170 to 2700	3400 to 3800
VSWR	1.5	1.5	1.5	1.5	1.5
Gain (dBi)	2	3	5.5	7	6
General data					
Nominal impedance (Ω)	50				
IMD level (dBc)	−155 at 2 × 43 dBm				
Polarisation	vertical				
Composite power max. (W)	50				
Mechanical data					
Dimensions (height × diameter)	87 × 238 mm (3.42 × 9.37 in)				
Weight	0.6 kg (1.32 lb)				
Connector	N (female) or 4.3-10 (female)				
Cable type	SUCOFORM_141_CU_CMP				
Environmental data					
Environment	indoor				
Operation temperature (°C)	0 to 55				
RoHS 2011/65/EU	compliant				
Material data					
Radome colour	white				
Radome material	PC (Polycarbonate)				
Back/base plate material	PCB_1				

Ordering information

Description	Item no.	Version
1399.17.0230	85063730	N (female)
1399.31.0004	85074215	4.3-10 (female)

SENCITY® Rondo MIMO



Features:

- Indoor DAS omni-directional antenna for In-building coverage
- 698 to 3800 MHz
- AMPS, GSM, PCS, CDMA, UMTS, WiFi, WLAN 2.4, LTE
- ETL tested for Plenum space (UL 2043)
- Design patent DM/088510

Specifications

Electrical data

Frequency (MHz)	698 to 790	790 to 960	1447 to 1660.5	1965 to 2170	2170 to 2700	3400 to 3600	3600 to 3800
VSWR	1.5	1.5	1.7	1.5	1.5	1.5	1.5
Gain (dBi)	2	2	4	6	7	6	6
Isolation (dB)	20	20	230	23	20	23	30

General data

Nominal impedance (Ω)	50
IMD level (dBc)	-155 at 2 × 43 dBm
Polarisation	vertical
Composite power max. (W)	50

Mechanical data

Dimensions (height × diameter)	87 × 238 mm (3.42 × 9.37 in)
Weight	0.6 kg (1.32 lbs)
Connector	N (female) or 4.3-10 (female)
Cable type	SUCOFORM_141_CU_CMP

Environmental data

Environment	indoor
Operation temperature (°C)	0 to 55
RoHS 2011/65/EU	compliant

Material data

Radome colour	white
Radome material	PC (Polycarbonate)
Back/base plate material	PCB_1

Ordering information

Description	Item no.	Version
1399.17.0229	85063729	N (female)
1399.31.0001	85071140	4.3-10 (female)

SENCITY® Spot-S circular polarized



Features:

- Small UHF RFID or mobilecommunication small band antenna
- Polarization circular - right hand
- Frequency-band: 865 to 870 MHz
- Indoor/outdoor mounting IP66/IP67

Specifications

Electrical data	
Frequency (MHz)	865 to 870
VSWR	2
Gain (dBi)	3.5
3 dB beamwidth (h) (°)	135
3 dB beamwidth (v) (°)	90

General data	
Nominal impedance (Ω)	50
Polarisation	circular right
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 81 × 36 mm (3.98 × 3.19 × 1.42 in)
Weight	0.18 kg (0.40 lbs)
Connector	SMA (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	-40 to 85
RoHS 2011/65/EU	compliant

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

Ordering information

Description	Item no.	Version
1308.99.0004	84075241	SMA (female)

SENCITY® Spot-S Cellular Antenna for Railway



Features:

- Directional, planar, linear vertical polarized antenna
- Cellular bands between 1710 and 1950 MHz
- Designed to meet EN 50155 (2007) and EN 45545-2 (2012) for railway rolling stock and EN 50125-3 (2003) for railway signalling and telecommunications on track-side
- Ingress protection IP 66 and IP 67
- Wall mounting material included

Specifications

Electrical data				
Frequency (MHz)	1710 to 1755	1755 to 1880	1880 to 1930	1930 to 1950
VSWR	2.0	1.5	2.0	2.5
Gain (dBi)	6.5	8.0	7.0	6.5
Isolation (dB)	15	15	15	15

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height x diameter)	101 x 81 x 36
Weight	0.11 kg
Connector	N (female)

Environmental data	
Environment	indoor/outdoor
Operation temperature (°C)	-40 to 85
RoHS 2011/65/EU	compliant

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

Ordering information

Description	Item no.	Version
1318.17.0015	85088775	N (female)

SENCITY® Spot-S



Features:

- Directional, planar, linear vertical polarized WiFi antenna with 8.5 dBi gain
- WLAN IEEE 802.11 b/g - WiFi band 2.4 to 2.485 GHz
- Approved acc. to EN 50155 (2007) and EN 45545-2 (2012) for railway rolling stock and EN 50125-3 (2003) for railway signalling and telecommunications on track-side
- For outdoor and indoor applications
- Ingress protection IP66 and IP67
- Wall mounting material included

Specifications

Electrical data	
Frequency (MHz)	2400 to 2485
VSWR	1.5
Gain (dBi)	8.5
3 dB beamwidth (h) (°)	75
3 dB beamwidth (v) (°)	75
Front to back ratio (dB)	12

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 81 × 36 mm (3.98 × 3.19 × 1.42 in)
Weight	0.11 kg (0.24 lbs)
Connector	N (female) or SMA (female) or QMA (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	-40 to 85
RoHS 2011/65/EU	compliant

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

Ordering information

Description	Item no.	Version
1324.17.0098	84073579	N (female)
1324.19.0057	84059620	SMA (female)
1324.35.0006	84062352	QMA (female)

SENCITY® Spot-S Railway and DECT



Features:

- Directional, planar, linear vertical polarized WiFi antenna with 8 dBi gain
- Cellular and DECT bands between 1710 and 1950 MHz
- Approved acc. to EN 50155 (2007) and EN 45545-2 (2012) for railway rolling stock and EN 50125-3 (2003) for railway signalling and telecommunications on track-side
- For outdoor and indoor applications
- Ingress protection IP66 and IP67
- Wall mounting material included

Specifications

Electrical data				
Frequency (MHz)	1710 to 1755	1755 to 1880	1880 to 1930	1930 to 1950
VSWR	2	1.5	2	2.5
Gain (dBi)	6.5	8	7	6.5
3 dB beamwidth (h) (°)	87	85	90	90
3 dB beamwidth (v) (°)	72	70	65	67
Front to back ratio (dB)	15	15	15	15

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 81 × 36 mm (3.98 × 3.19 × 1.42 in)
Weight	0.11 kg (0.24 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant

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

Ordering information

Description	Item no.	Version
1318.17.0015	85088775	N (female)

SENCITY® Spot-S



Features:

- Directional, planar, linear vertical polarized WiFi antenna with 14 dBi gain
- WLAN IEEE 802.11 a/h/p – WiFi bands 5.15 to 5.975 GHz
- Approved acc. to EN 50155 (2007) and EN 45545-2 (2012) for railway rolling stock and EN 50125-3 (2003) for railway signalling and telecommunications on track-side
- For outdoor and indoor applications
- Ingress protection IP66 and IP67
- Wall mounting material included

Specifications

Electrical data	
Frequency (MHz)	5150 to 5975
VSWR	1.5
Gain (dBi)	14
3 dB beamwidth (h) (°)	40
3 dB beamwidth (v) (°)	35
Front to back ratio (dB)	20

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 81 × 36 mm (3.98 × 3.19 × 1.42 in)
Weight	0.11 kg (0.24 lbs)
Connector	N (female) or SMA (female) or TNC (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant

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

Ordering information

Description	Item no.	Version
1356.17.0077	84078981	N (female)
1356.19.0022	84059621	SMA (female)
1356.26.0017	84062353	TNC (female)

SENCITY® Spot-S



Features:

- Directional, planar, linear vertical polarized WiFi antenna with 13.5 dBi gain
- 4.9 up to 5.3 GHz for public safety wireless-networks
- WLAN/WiFi IEEE 802.11 a/h for Japan, Israel
- Approved acc. to EN 50155 (2007) and EN 45545-2 (2012) for railway rolling stock and EN 50125-3 (2003) for railway signalling and telecommunications on track-side
- For outdoor applications IP66/67
- Wall mounting material included

Specifications

Electrical data		
Frequency (MHz)	4900 to 4940	4940 to 5350
VSWR	1.5	1.5
Gain (dBi)	13	13.5
3 dB beamwidth (h) (°)	40	40
3 dB beamwidth (v) (°)	35	35
Front to back ratio (dB)	20	20
Sidelobes (v)	15	

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 81 × 36 mm (3.98 × 3.19 × 1.42 in)
Weight	0.11 kg (0.24 lbs)
Connector	N (female) or QN (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant

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

Ordering information

Description	Item no.	Version
1351.17.0001	84088544	N (female)
1351.30.0001	84071497	QN (female)

SENCITY® Spot-S WiFi dual-band



Features:

- Directional, planar, linear polarized dual-band WiFi antenna with 9 dBi gain
- WiFi bands 2.4 to 2.5 GHz and 5.150 to 5.975 GHz on one single port
- WLAN IEEE 802.11 a/b/g/h/p
- Approved acc. to EN 50155 (2007) and EN 45545-2 (2012) for railway rolling stock
- For outdoor and indoor applications
- Ingress protection IP66 and IP67
- Wall mounting material included

Specifications

Electrical data		
Frequency (MHz)	2400 to 2500	5150 to 5935
VSWR	2	2
Gain (dBi)	9	9
Isolation (dB)	25	30
3 dB beamwidth (h) (°)	75	55
3 dB beamwidth (v) (°)	55	55
Front to back ratio (dB)	15	15

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 81 × 36 mm (3.98 × 3.19 × 1.42 in)
Weight	0.11 kg (0.24 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant

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

Ordering information

Description	Item no.	Version
1399.17.0210	84087864	N (female)

SENCITY® Spot-S WiFi dual-band



Features:

- Directional, planar, linear polarized dual-band WiFi antenna with 9 dBi gain
- WLAN bands 2.4 to 2.5 GHz (port 1) and 5.150 to 5.975 GHz (port 2)
- WLAN IEEE 802.11 a/b/g/h/p
- Cellular/LTE 2600 band included at port 1
- Approved acc. to EN 50155 (2007) and EN 45545-2 (2012) for railway rolling stock and EN 50125-3 (2003) for railway signalling and telecommunications on track-side
- For outdoor and indoor applications
- Ingress protection IP66 and IP67
- Wall mounting material included

Specifications

Electrical data	Band 1	Band 2
Frequency (MHz)	2400 to 2700	5150 to 5975
VSWR	2	2
Gain (dBi)	9	9
Isolation (dB)	25	35
3 dB beamwidth (h) (°)	80	47
3 dB beamwidth (v) (°)	55	30
Front to back ratio (dB)	18	18

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 81 × 36 mm (3.98 × 3.19 × 1.42 in)
Weight	0.13 kg (0.29 lbs)
Connector	SMA (female) for port 1 (band 1) and port 2 (band 2)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant

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

Ordering information

Description	Item no.	Version
1399.19.0221	85007705	SMA (female)

SENCITY® Spot-S 2 × 2 WiFi MIMO



Features:

- Directional, planar, linear polarized WiFi antenna with 8 dBi gain
- Dual-slant $\pm 45^\circ$ for 2 × 2 WiFi MIMO antenna configuration
- WLAN IEEE 802.11 b/g/n WiFi band 2.4 to 2.485 GHz
- Approved acc. to EN 50155 (2007) and EN 45545-2 (2012) for railway rolling stock and EN 50125-3 (2003) for railway signalling and telecommunications on track-side
- For outdoor and indoor applications
- Ingress protection IP66 and IP67
- Wall mounting material included

Specifications

Electrical data	
Frequency (MHz)	2400 to 2485
VSWR	1.5
Gain (dBi)	8
Isolation (dB)	25
3 dB beamwidth (h) (°)	75
3 dB beamwidth (v) (°)	70
Front to back ratio (dB)	14

General data	
Nominal impedance (Ω)	50
Polarisation	$\pm 45^\circ$ slant
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	100 × 81 × 36 mm (3.94 × 3.19 × 1.42 in)
Weight	0.11 kg (0.24 lbs)
Connector	N (female) or SMA (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	-40 to 85
RoHS 2011/65/EU	compliant

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

Ordering information

Description	Item no.	Version
1324.17.0099	84078979	2 × N (female)
1324.19.0056	84059618	2 × SMA (female)

SENCITY® Spot-S 2 × 2 WiFi MIMO



Features:

- Directional, planar, linear polarized WiFi antenna with 9 dBi gain
- Dual-slant $\pm 45^\circ$ for 2 × 2 WiFi MIMO antenna configuration
- WLAN IEEE 802.11 a/h/p/n - WiFi band 5.15 to 5.935 GHz
- Approved acc. to EN 50155 (2007) and EN 45545-2 (2012) for railway rolling stock and EN 50125-3 (2003) for railway signalling and telecommunications on track-side
- For outdoor and indoor applications
- Ingress protection IP66 and IP67
- Wall mounting material included

Specifications

Electrical data	
Frequency (MHz)	5150 to 5935
VSWR	2
Gain (dBi)	9
Isolation (dB)	20
3 dB beamwidth (h) (°)	70
3 dB beamwidth (v) (°)	60
Front to back ratio (dB)	20

General data	
Nominal impedance (Ω)	50
Polarisation	$\pm 45^\circ$ slant
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 81 × 36 mm (3.98 × 3.19 × 1.42 in)
Weight	0.11 kg (0.24 lbs)
Connector	N (female) or SMA (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	-40 to 85
RoHS 2011/65/EU	compliant

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

Ordering information

Description	Item no.	Version
1356.17.0076	84078980	2 × N (female)
1356.19.0023	84059684	2 × SMA (female)

SENCITY® Spot-S 3 × 3 WiFi MIMO



- Features:
- Directional, planar, linear polarized WiFi MIMO antenna
 - WLAN IEEE 802.11 a/h/n/p/ac, 3 × 3 MIMO with three ports
 - WiFi 5 GHz bands 5.15 to 5.935 GHz
 - For outdoor and indoor applications
 - Ingress protection IP66 and IP67
 - Wall mounting material included

Specifications

Electrical data	
Frequency (MHz)	5150 to 5935
VSWR	1.7
Gain (dBi)	8
Isolation (dB)	17
3 dB beamwidth (h) (°)	65
3 dB beamwidth (v) (°)	65
General data	
Nominal impedance (Ω)	50
Polarisation	−45°/vertical/+45°
Composite power max. (W)	2
Mechanical data	
Dimensions (height × width × depth)	101 × 81 × 36 mm (3.98 × 3.19 × 1.42 in)
Weight	0.27 kg (0.59 lbs)
Connector	QMA (female) or N (male)
Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 85
RoHS 2011/65/EU	compliant
Material data	
Radome colour	RAL 7044 (grey)
Radome material	PC (Polycarbonate)

Ordering information

Description	Item no.	Version
1356.35.0003	84125104	3 × QMA (female)
1356.17.0078	84076862	3 pigtails N (male)

SENCITY® Spot-S indoor



Features:

- Planar indoor antenna
- Polarisation: linear vertical
- IEEE 802.16, IEEE 802.11 b/g
- Working range: 2300 to 2800 MHz WiFi/WLAN
- Half power beamwidth: 70°/75° (vert./hor.); 7.5 dBi gain
- Wall and mast mounting material included, supports mast diameter 40 to 60 mm

Specifications

Electrical data	
Frequency (MHz)	2300 to 2800
VSWR	1.5
Gain (dBi)	7.5
3 dB beamwidth (h) (°)	75
3 dB beamwidth (v) (°)	70
Front to back ratio (dB)	20

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 80 × 20 mm (3.98 × 3.15 × 0.79 in)
Weight	0.13 kg (0.29 lbs)
Connector	SMA (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	−40 to 80
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7035 (light-grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)

Ordering information

Description	Item no.	Version
1324.19.0032	23019483	SMA (female)

SENCITY® Spot-S indoor



Features:

- Planar indoor antenna
- Polarisation: linear vertical
- WLAN/WiFi IEEE 802.11 a/h
- Working range: 5150 to 5875 MHz
- Half power beamwidth: 35°/65° (vert./hor.); 11.5 dBi gain
- Wall and mast mounting material included, supports mast diameter 40 to 60 mm

Specifications

Electrical data	
Frequency (MHz)	5150 to 5875
VSWR	1.5
Gain (dBi)	11.5
3 dB beamwidth (h) (°)	65
3 dB beamwidth (v) (°)	35
Front to back ratio (dB)	18

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 80 × 20 mm (3.98 × 3.15 × 0.79 in)
Weight	0.13 kg (0.29 lbs)
Connector	SMA (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	−40 to 80
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7035 (light-grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)

Ordering information

Description	Item no.	Version
1356.19.0002	23041806	SMA (female)

SENCITY® Spot-S indoor



Features:

- Planar directive antenna for GSM 1800 and UMTS, 1710 to 2170 MHz, 8 dBi, 80° HPBW, vertical polarisation

Specifications

Electrical data	
Frequency (MHz)	1710 to 2170
VSWR	1.8
Gain (dBi)	8
3 dB beamwidth (h) (°)	80
3 dB beamwidth (v) (°)	75
Front to back ratio (dB)	18

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 80 × 20 mm (3.98 × 3.15 × 0.79 in)
Weight	0.13 kg (0.29 lbs)
Connector	SMA (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	-40 to 80
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7035 (light-grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)

Ordering information

Description	Item no.	Version
1320.19.0001	23005585	SMA (female)

SENCITY® Spot-S indoor



Features:

- Small directional indoor antenna for WiFi applications
- Rugged design, meets EN 50155 railway standard
- Fire retardant acc. to DIN 5510-2, BS 6853, EN 45545-2

Specifications

Electrical data	
Frequency (MHz)	2300 to 2500
VSWR	1.5
Gain (dBi)	8.5
3 dB beamwidth (h) (°)	75
3 dB beamwidth (v) (°)	60
Front to back ratio (dB)	20

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	75

Mechanical data	
Dimensions (height × width × depth)	101 × 95 × 32 mm (3.98 × 3.74 × 1.26 in)
Weight	0.11 kg (0.24 lbs)
Connector	TNC (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	−40 to 80
RoHS 2011/65/EU	compliant

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

Ordering information

Description	Item no.	Version
1324.26.0049	84026271	TNC (female)

SENCITY® Spot-S indoor



Features:

- Small directional indoor antenna for WiFi applications
- Rugged design, meets EN 50155 railway standard
- Fire retardant acc. to DIN 5510-2, BS 6853, EN 45545-2

Specifications

Electrical data		
Frequency (MHz)	5150 to 5250	5250 to 5875
VSWR	1.7	1.5
Gain (dBi)	9.5	9.5
3 dB beamwidth (h) (°)	60	60
3 dB beamwidth (v) (°)	55	55
Front to back ratio (dB)	18	18

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 80 × 20 mm (3.98 × 3.15 × 0.79 in)
Weight	0.13 kg (0.29 lbs)
Connector	TNC (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	−40 to 80
RoHS 2011/65/EU	compliant

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

Ordering information

Description	Item no.	Version
1356.26.0013	84026274	TNC (female)

SENCITY® Spot-S indoor



Features:

- Planar indoor DECT antenna
- Polarisation: linear vertical
- Working range: 1850 to 1990 MHz
- Half power beamwidth: 65°/85° (vert./ hor.); 8 dBi gain
- Wall mounting socket included

Specifications

Electrical data	
Frequency (MHz)	1850 to 1990
VSWR	1.5
Gain (dBi)	8
3 dB beamwidth (h) (°)	85
3 dB beamwidth (v) (°)	65
Front to back ratio (dB)	15

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 95 × 32 mm (3.98 × 3.74 × 1.26 in)
Weight	0.115 kg (0.25 lbs)
Connector	SMA (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	−40 to 80
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7035 (light-grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back/base plate colour	RAL 7042 (dark-grey)
Back/base plate material	ASA (acrylic ester-styrene-acrylonitrile)

Ordering information

Description	Item no.	Version
1319.19.0003	22649572	SMA (female)

SENCITY® Spot-S indoor



Features:

- Planar indoor DECT antenna
- Polarisation: LHCP circular left-hand
- Working range: 1850 to 1990 MHz
- Half power beamwidth: 70°/70° (vert./hor.); 8 dBi gain
- Wall mounting socket included

Specifications

Electrical data	
Frequency (MHz)	1850 to 1990
VSWR	1.5
Gain (dBi)	8
3 dB beamwidth (h) (°)	70
3 dB beamwidth (v) (°)	70
Front to back ratio (dB)	20

General data	
Nominal impedance (Ω)	50
Polarisation	circular left
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 95 × 32 mm (3.98 × 3.74 × 1.26 in)
Weight	0.115 kg (0.25 lbs)
Connector	SMA (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	−40 to 80
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7035 (light-grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back/base plate colour	RAL 7042 (dark-grey)
Back/base plate material	ASA (acrylic ester-styrene-acrylonitrile)

Ordering information

Description	Item no.	Version
1319.19.0004	22650455	SMA (female)

SENCITY® Spot-S indoor



Features:

- Planar indoor DECT antenna
- Polarisation: RHCP circular right-hand
- Working range: 1850 to 1990 MHz
- Half power beamwidth: 70°/70° (vert./hor.); 8 dBi gain
- Wall mounting socket included

Specifications

Electrical data	
Frequency (MHz)	1850 to 1990
VSWR	1.5
Gain (dBi)	8
3 dB beamwidth (h) (°)	70
3 dB beamwidth (v) (°)	70
Front to back ratio (dB)	20

General data	
Nominal impedance (Ω)	50
Polarisation	circular right
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 95 × 32 mm (3.98 × 3.74 × 1.26 in)
Weight	0.115 kg (0.25 lbs)
Connector	SMA (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	−40 to 80
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7035 (light-grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back/base plate colour	RAL 7042 (dark-grey)
Back/base plate material	ASA (acrylic ester-styrene-acrylonitrile)

Ordering information

Description	Item no.	Version
1319.19.0005	22650451	SMA (female)

SENCITY® Spot-S indoor



Features:

- LHCP planar indoor antenna
- Polarization: circular - left hand
- IEEE 802.16 and IEEE 802.11 b/g
- Working range: 2300 to 2500 MHz WiFi/WLAN
- Half power beamwidth: 65°/70° (vert./ hor.); 8.5 dBi gain
- Wall mounting socket included

Specifications

Electrical data	
Frequency (MHz)	2300 to 2500
VSWR	1.5
Gain (dBi)	8.5
3 dB beamwidth (h) (°)	70
3 dB beamwidth (v) (°)	65
Front to back ratio (dB)	20

General data	
Nominal impedance (Ω)	50
Polarisation	circular left
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 95 × 32 mm (3.98 × 3.74 × 1.26 in)
Weight	0.11 kg (0.24 lbs)
Connector	SMA (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	−40 to 80
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7035 (light-grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back/base plate colour	RAL 7042 (dark-grey)
Back/base plate material	ASA (acrylic ester-styrene-acrylonitrile)

Ordering information

Description	Item no.	Version
1324.19.0007	22650456	SMA (female)

SENCITY® Spot-S indoor



Features:

- RHCP planar indoor antenna
- Polarization: circular - right hand
- IEEE 802.16 and IEEE 802.11 b/g
- Working range: 2300 to 2500 MHz WiFi/WLAN
- Half power beamwidth: 65°/70° (vert./hor.); 8.5 dBi gain
- Wall mounting socket included

Specifications

Electrical data	
Frequency (MHz)	2300 to 2500
VSWR	1.5
Gain (dBi)	8.5
3 dB beamwidth (h) (°)	70
3 dB beamwidth (v) (°)	65
Front to back ratio (dB)	20

General data	
Nominal impedance (Ω)	50
Polarisation	circular right
Composite power max. (W)	10

Mechanical data	
Dimensions (height × width × depth)	101 × 95 × 32 mm (3.98 × 3.74 × 1.26 in)
Weight	0.11 kg (0.24 lbs)
Connector	SMA (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	−40 to 80
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7035 (light-grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back/base plate colour	RAL 7042 (dark-grey)
Back/base plate material	ASA (acrylic ester-styrene-acrylonitrile)

Ordering information

Description	Item no.	Version
1324.19.0008	22650442	SMA (female)

SENCITY® Spot-S indoor



Features:

- Planar indoor DECT antenna
- Polarisation: dual linear, $\pm 45^\circ$ slant
- Working range: 1880 to 1930 MHz
- Half power beamwidth: $75^\circ/85^\circ$ (vert./hor.); 8 dBi gain
- Wall mounting socket included

Specifications

Electrical data	
Frequency (MHz)	1880 to 1930
VSWR	1.5
Gain (dBi)	8
Isolation (dB)	30
3 dB beamwidth (h) (°)	85
3 dB beamwidth (v) (°)	75
Front to back ratio (dB)	12

General data	
Nominal impedance (Ω)	50
Polarisation	$\pm 45^\circ$ slant
Composite power max. (W)	10

Mechanical data	
Dimensions (height $\times$ width $\times$ depth)	101 $\times$ 95 $\times$ 32 mm (3.98 $\times$ 3.74 $\times$ 1.26 in)
Weight	0.11 kg (0.24 lbs)
Connector	TNC (female)

Environmental data	
Environment	indoor
Operation temperature (°C)	-40 to 80
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 7035 (light-grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back/base plate colour	RAL 7042 (dark-grey)
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1319.26.0027	22659404	2 $\times$ TNC (female)

SENCITY® Spot-M



Features:

- Linear polarised directional WiFi antenna
- IEEE 802.11 b/g WLAN
- Frequency band 2.3 to 2.7 GHz
- For outdoor applications IP67

Specifications

Electrical data			
Frequency (MHz)	2300 to 2400	2400 to 2500	2500 to 2700
VSWR	1.9	1.9	1.9
Gain (dBi)	14	14.5	15
3 dB beamwidth (h) (°)	32	32	32
3 dB beamwidth (v) (°)	32	32	32
Front to back ratio (dB)	26	26	26
Sidelobes (h)	ETSI EN 301 525 V1.1.1 (2000-06)		
Sidelobes (v)	ETSI EN 301 525 V1.1.1 (2000-06)		

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	6

Mechanical data	
Dimensions (height × width × depth)	190 × 190 × 30 mm (7.48 × 7.48 × 1.18 in)
Weight	0.5 kg (1.10 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−45 to 71
RoHS 2011/65/EU	compliant
IP rating	IP67

Material data	
Radome colour	RAL 9002 (grey-white)
Radome material	Plastic
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1324.17.0051	84018384	N (female)

SENCITY® Spot-M



Features:

- Linear vertical polarised, directional WiFi antenna
- WiFi IEEE 802.11 a/h; WLAN
- Frequency band 5.15 to 5.95 GHz
- High gain antenna 18 to 19 dBi
- Ingress protection IP67 (IEC 60529)
- For outdoor and indoor applications

Specifications

Electrical data					
Frequency (MHz)	5150 to 5250	5250 to 5350	5350 to 5725	5725 to 5875	5875 to 5950
VSWR	1.9	1.9	1.9	1.9	2
Gain (dBi)	18	19	18.5	18	17.5
3 dB beamwidth (h) (°)	18	18	18	18	18
3 dB beamwidth (v) (°)	18	18	18	18	18
Front to back ratio (dB)	30	30	30	30	30

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	6

Mechanical data	
Dimensions (height × width × depth)	190 × 190 × 30 mm (7.48 × 7.48 × 1.18 in)
Weight	0.7 kg (1.54 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−45 to 70
RoHS 2011/65/EU	compliant
IP rating	IP67

Material data	
Radome colour	RAL 9002 (grey-white)
Radome material	Plastic
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1356.17.0024	84018716	N (female)

SENCITY® Spot-M



Features:

- Planar antenna for 866 MHz ISM bands
- Gain: 8 dBi
- Polarisation: linear vertical
- Frequency range: 860 to 870 MHz
- Half power beamwidth: 65°/ 70° (vert./hor.)

Specifications

Electrical data	
Frequency (MHz)	865 to 870
VSWR	1.3
Gain (dBi)	8
3 dB beamwidth (h) (°)	70
3 dB beamwidth (v) (°)	65
Front to back ratio (dB)	-20
Sidelobes (v)	20

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	6

Mechanical data	
Dimensions (height × width × depth)	190 × 190 × 30 mm (7.48 × 7.48 × 1.18 in)
Weight	0.8 kg (1.76 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	-55 to 71
RoHS 2011/65/EU	compliant
IP rating	IP67

Material data	
Radome colour	RAL 9002 (grey-white)
Radome material	PP (Polypropylene)
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1308.17.0071	84044175	N (female)

SENCITY® Spot-M



Features:

- Planar antenna for 915 MHz FCC bands
- Gain: 8 dBi
- Polarisation: linear vertical
- Frequency range: 902 to 928 MHz
- Half power beamwidth: 70°/ 70° (vert./hor.)

Specifications

Electrical data	
Frequency (MHz)	902 to 928
VSWR	1.7
Gain (dBi)	8
3 dB beamwidth (h) (°)	70
3 dB beamwidth (v) (°)	70
Front to back ratio (dB)	-11

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	6

Mechanical data	
Dimensions (height × width × depth)	190 × 190 × 30 mm (7.48 × 7.48 × 1.18 in)
Weight	0.7 kg (1.54 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	-55 to 71
RoHS 2011/65/EU	compliant
IP rating	IP67

Material data	
Radome colour	RAL 9002 (grey-white)
Radome material	PP (Polypropylene)
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1309.17.0085	84029200	N (female)

SENCITY® Spot-M 2x2 WiFi MIMO



Features:

- Directional, planar, dual linear vertical and horizontal polarized WiFi antenna
- For 2 × 2 WiFi MIMO configuration - WLAN WiFi IEEE 802.11 a/h/n
- Frequency bands for 5.15 to 5.875 GHz per each port, high gain 19 dBi
- For outdoor or indoor applications
- Ingress protection IP67

Specifications

Electrical data	
Frequency (MHz)	5150 to 5875
VSWR	1.7
Gain (dBi)	19
Isolation (dB)	30
3 dB beamwidth (h) (°)	17
3 dB beamwidth (v) (°)	17
Front to back ratio (dB)	30
Co/Crosspolar ratio (dB)	20
Sidelobes (v)	ETSI EN 302 217-4-2 V1.5.1 CLASS 2

General data	
Nominal impedance (Ω)	50
Polarisation	horizontal and vertical
Composite power max. (W)	6

Mechanical data	
Dimensions (height × width × depth)	190 × 190 × 30 mm (7.48 × 7.48 × 1.18 in)
Weight	0.7 kg (1.54 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	-55 to 70
RoHS 2011/65/EU	compliant
IP rating	IP67

Material data	
Radome colour	RAL 9002 (grey-white)
Radome material	PC (Polycarbonate)
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1356.17.0023	84018715	2 × N (female)

SENCITY® Spot-L WiFi



Features:

- Linear vertical or horizontal polarised directional WiFi antenna
- High gain 17.5 dBi with HPBW 20°
- IEEE 802.11 b/g WLAN
- Frequency band 2.3 to 2.7 GHz
- Mobile and LTE 2.7 GHz band
- For outdoor applications IP67 (IEC 60529)

Specifications

Electrical data				
Frequency (MHz)	2300 to 2400	2400 to 2500	2500 to 2600	2600 to 2700
VSWR	1.7	1.7	1.7	1.7
Gain (dBi)	15.5	17	17.5	18
3 dB beamwidth (h) (°)	20	20	20	20
3 dB beamwidth (v) (°)	20	20	20	20
Front to back ratio (dB)	28	28	28	28
Co/Crosspolar ratio (dB)	20	20	20	20

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	6

Mechanical data	
Dimensions (height × width × depth)	305 × 305 × 25 mm (12.01 × 12.01 × 0.98 in)
Weight	1.2 kg (2.64 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−45 to 70
RoHS 2011/65/EU	compliant
IP rating	IP67

Material data	
Radome colour	RAL 9002 (grey-white)
Radome material	Plastic
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1324.17.0112	85017308	N (female)

SENCITY® Spot-L circular polarized



Features:

- Planar antenna for 433 MHz ISM bands
- Gain: 9 dBi
- Polarisation: left circular
- Frequency range: 430 to 437 MHz
- Half power beamwidth: 68°/ 70° (vert./hor.)

Specifications

Electrical data	
Frequency (MHz)	430 to 437
VSWR	1.5
Gain (dBi)	9
3 dB beamwidth (h) (°)	68
3 dB beamwidth (v) (°)	70
Front to back ratio (dB)	10.5
Sidelobes (v)	ETSI EN 301 525 V1.1.1 (2000-06) TS1, TS2

General data	
Nominal impedance (Ω)	50
Polarisation	circular left
Composite power max. (W)	6

Mechanical data	
Dimensions (height × width × depth)	371 × 371 × 40 mm (14.61 × 14.61 × 1.57 in)
Weight	2 kg (4.40 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−55 to 71
RoHS 2011/65/EU	compliant
IP rating	IP67

Material data	
Radome colour	RAL 9002 (grey-white)
Radome material	PC (Polycarbonate)
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1304.17.0008	84019339	N (female)

SENCITY® Spot-L



Features:

- Directional, planar, dual linear vertical + horizontal polarized WiFi antenna
- WLAN IEEE 802.11 a/h/n/p
- Frequency band 4.9 to 6.1 GHz, 23 dBi high gain
- Including wireless access in vehicular environments IEEE 802.11p (5.85-5.925 GHz)
- Also for public safety wireless networks and WiFi band IEEE 802.11 a/h/n for Japan (4.9 GHz band)
- For outdoor applications
- Ingress protection IP67

Specifications

Electrical data		
Frequency (MHz)	4900 to 5150	5150 to 6100
VSWR	2	2
Gain (dBi)	22	23
Isolation (dB)	35	35
3 dB beamwidth (h) (°)	10	10
3 dB beamwidth (v) (°)	10	10
Front to back ratio (dB)	30	30

General data	
Nominal impedance (Ω)	50
Polarisation	horizontal and vertical
Composite power max. (W)	6

Mechanical data	
Dimensions (height × width × depth)	305 × 305 × 15 mm (12.01 × 12.01 × 0.59 in)
Weight	1.2 kg (2.64 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−45 to 70
RoHS 2011/65/EU	compliant
IP rating	IP67

Material data	
Radome colour	RAL 9002 (grey-white)
Radome material	Plastic
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1355.17.0001	85017310	2 × N (female)

SENCITY® Spot-L WiFi



Features:

- Linear vertical or horizontal polarized WiFi antenna
- Frequency band 4.9 to 5.875 GHz, 23 dBi, WLAN
- WiFi IEEE 802.11a/h/p standard
- High gain directional antenna
- For outdoor applications
- Ingress protection IP67 (IEC 60529)

Specifications

Electrical data		
Frequency (MHz)	4900 to 5150	5150 to 5875
VSWR	1.7	1.7
Gain (dBi)	22	23
3 dB beamwidth (h) (°)	9	9
3 dB beamwidth (v) (°)	9	9
Front to back ratio (dB)	35	35

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	6

Mechanical data	
Dimensions (height × width × depth)	305 × 305 × 15 mm (12.01 × 12.01 × 0.59 in)
Weight	1.2 kg (2.64 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−45 to 70
RoHS 2011/65/EU	compliant
IP rating	IP67

Material data	
Radome colour	RAL 9002 (grey-white)
Radome material	Plastic
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1354.17.0001	85017309	N (female)

SENCITY® Spot-L 3 × 3 WiFi MIMO



Features:

- Directional, planar, triple slant 3 × 3 WiFi MIMO antenna
- Frequency band 4.9 to 6.1 GHz, 18 dBi, WLAN
- WiFi IEEE 802.11a/h/n/p/ac standard
- For outdoor or indoor applications
- Ingress protection IP67

Specifications

Electrical data			
Frequency (MHz)	4900 to 5150	5150 to 6000	6000 to 6100
VSWR	1.8	1.8	1.8
Gain (dBi)	17	18	16
Isolation (dB)	35	35	30
3 dB beamwidth (h) (°)	20	20	15
3 dB beamwidth (v) (°)	20	20	12
Front to back ratio (dB)	30	30	30

General data	
Nominal impedance (Ω)	50
Polarisation	−45°/vertical/+45°
Composite power max. (W)	6

Mechanical data	
Dimensions (height × width × depth)	305 × 305 × 15 mm (12.01 × 12.01 × 0.59 in)
Weight	1.5 kg (3.30 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−45 to 70
RoHS 2011/65/EU	compliant
IP rating	IP67

Material data	
Radome colour	RAL 9002 (grey-white)
Radome material	Plastic
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1356.17.0090	85004909	3 × N (female)

SENCITY® Spot-L



Features:

- SENCITY® Spot-L Linear polarised directional WiFi sector-antenna
- IEEE 802.11 a/h
- WLAN
- For outdoor applications

Specifications

Electrical data			
Frequency (MHz)	5150 to 5350	5350 to 5725	5725 to 5875
VSWR	1.7	1.7	1.7
Gain (dBi)	16	16.5	17
3 dB beamwidth (h) (°)	60	60	60
3 dB beamwidth (v) (°)	11	11	11
Front to back ratio (dB)	35	35	35
Sidelobes (v)	ETSI EN 302 326-3 V1.3.1 (2008-02) DN1, DN2, DN3		

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	6

Mechanical data	
Dimensions (height × width × depth)	350 × 150 × 30 mm (13.78 × 5.91 × 1.18 in)
Weight	1.5 kg (3.30 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−45 to 70
RoHS 2011/65/EU	compliant
IP rating	IP67

Material data	
Radome colour	RAL 9002 (grey-white)
Radome material	PC (Polycarbonate)
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1356.17.0011	84012278	N (female)

SENCITY® Spot-L



Features:

- SENCITY® Spot-L Linear polarised directional WiFi sector antenna
- IEEE 802.11 a/h
- WLAN
- For outdoor applications

Specifications

Electrical data	
Frequency (MHz)	5150 to 5875
VSWR	1.7
Gain (dBi)	15
3 dB beamwidth (h) (°)	120
3 dB beamwidth (v) (°)	6

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	6

Mechanical data	
Dimensions (height × width × depth)	550 × 250 × 17 mm (21.65 × 9.84 × 0.67 in)
Weight	1.5 kg (3.30 lbs)
Connector	N (female)

Environmental data	
Environment	outdoor
Operation temperature (°C)	−45 to 70
RoHS 2011/65/EU	compliant
IP rating	IP67

Material data	
Radome colour	RAL 9002 (grey-white)
Radome material	PC (Polycarbonate)
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1356.17.0018	84017907	N (female)

SENCITY® Spot-L RFID



Features:

- UHF RFID tag reader antenna
- RHCP right-hand circular polarized
- Frequency range: 865 to 870 MHz for ETSI applications
- Ruggedized conveyor belt portal antenna
- Ingress protection IP54 (IEC 60529)

Specifications

Electrical data	
Frequency (MHz)	865 to 870
VSWR	1.5
Gain (dBi)	12
3 dB beamwidth (h) (°)	62
3 dB beamwidth (v) (°)	30
Front to back ratio (dB)	20

General data	
Nominal impedance (Ω)	50
Polarisation	circular right
Composite power max. (W)	6

Mechanical data	
Dimensions (height × width × depth)	650 × 320 × 32 mm (25.59 × 12.60 × 1.26 in)
Weight	2.8 kg (6.16 lbs)
Connector	N (female)

Environmental data	
Operation temperature (°C)	−55 to 71
RoHS 2011/65/EU	compliant
IP rating	IP54

Material data	
Radome colour	RAL 9002 (grey-white)
Radome material	Plastic
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1308.17.0069	84039144	N (female)

SENCITY® Spot-L RFID



Features:

- UHF RFID tag reader antenna
- RHCP right-hand circular polarized
- Frequency range: 902 to 928 MHz for FCC applications
- Ruggedized conveyor belt portal antenna
- Ingress protection IP54 (IEC 60529)

Specifications

Electrical data	
Frequency (MHz)	902 to 928
VSWR	1.5
Gain (dBi)	11
3 dB beamwidth (h) (°)	63
3 dB beamwidth (v) (°)	30
Front to back ratio (dB)	-20

General data	
Nominal impedance (Ω)	50
Polarisation	circular right
Composite power max. (W)	6

Mechanical data	
Dimensions (height × width × depth)	650 × 320 × 32 mm (25.59 × 12.60 × 1.26 in)
Weight	2.8 kg (6.16 lbs)
Connector	N (female)

Environmental data	
Operation temperature (°C)	-55 to 71
RoHS 2011/65/EU	compliant
IP rating	IP54

Material data	
Radome colour	RAL 9002 (grey-white)
Radome material	Plastic
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1309.17.0111	85018546	N (female)

SENCITY® Spot-M Yagi



Features:

- 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
- No DC contact of outer connector to bracket

Specifications

Electrical data	
Frequency (MHz)	2400 to 2484
VSWR	1.7
Gain (dBi)	14
3 dB beamwidth (h) (°)	30
3 dB beamwidth (v) (°)	30

General data	
Nominal impedance (Ω)	50
Polarisation	vertical

Mechanical data	
Dimensions (height × width × depth)	80 × 420 × 80 mm (3.15 × 16.54 × 3.15 in)
Weight	0.85 kg (1.87 lbs)
Connector	N (female), N (male)
Cable type	SX_04172_B-60

Environmental data	
Environment	outdoor
Operation temperature (°C)	−40 to 70
RoHS 2011/65/EU	compliant
IP rating	IP65

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

Ordering information

Description	Item no.	Version
1324.17.0113	85023217	N (female)
1324.17.0116	85070104	N (male)

SENCITY® Ultra indoor



Features:

- Indoor DAS omni-directional antenna for in-building coverage
- Ultra broad band, multi band supporting AMPS, GSM, PCS, CDMA, UMTS, WiFi, WLAN 2.4 and 5.6 GHz, WiMAX, LTE, 4.9 GHz Homeland Security, Tetra, Tetrapol, DVB-T, DVB-H
- Ceiling mount
- High gain
- 380 to 5875 MHz

Specifications

Electrical data				
Frequency (MHz)	380 to 560	560 to 960	1710 to 5500	5500 to 5875
VSWR	2	2	1.5	1.5
Gain (dBi)	3.5	5	8	10

General data	
Nominal impedance (Ω)	50
IMD level (dBc)	-150, 2 × 43 dBm
Polarisation	vertical
Composite power max. (W)	100

Mechanical data	
Dimensions (height × width × depth)	153.6 × 78.6 × 255 mm (6.05 × 3.09 × 10.04 in)
Weight	0.8 kg (1.76 lbs)
Connector	N (female)

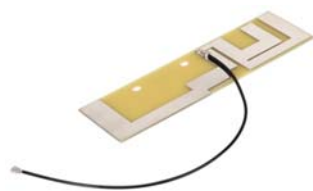
Environmental data	
Environment	indoor
Operation temperature (°C)	0 to 55
RoHS 2011/65/EU	compliant

Material data	
Radome colour	RAL 9010 (white)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back/base plate colour	RAL 9010 (white)
Back/base plate material	Aluminium

Ordering information

Description	Item no.	Version
1399.17.0120	84078635	N (female)

SENCITY® Embedded cellular/LTE



- Features:
- SENCITY® Embedded cellular/LTE multi-band antenna
 - Linear vertical polarized omni-directional PCB antenna
 - Cellular/LTE (EUR) bands 790 to 960 Mhz and 1710 to 2700 MHz
 - Working without any extra ground plane
 - Gain 1 to 4 dBi
 - Two antennas are packed into a common ESD bag

Specifications

Electrical data				
Frequency (MHz)	790 to 960	1710 to 1880	1880 to 2170	2170 to 2690
VSWR	2.2	2.5	2.5	2.2
Gain (dBi)	2.5	2	1	4
3 dB beamwidth (h) (°)	360	360	360	360

General data	
Nominal impedance (Ω)	50
Polarisation	vertical
Composite power max. (W)	2

Mechanical data	
Dimensions (height × width × depth)	98 × 29 × 0.9 mm (3.86 × 1.14 × 0.04 in)
Weight	0.005 kg (0.01 lbs)

Environmental data	
Environment	indoor
Operation temperature (°C)	−40 to 70
RoHS 2011/65/EU	compliant

Ordering information

Description	Item no.	Version
1399.99.0140	85071797	Pigtail with U.FL

SENCITY® Embedded WiFi dual-band



- Features:
- SENCITY® Embedded WiFi WLAN dual-band antenna
 - Linear vertical polarized omni-directional PCB antenna
 - Wireless bands 2.4 to 2.5 and 4.9 to 5.9 GHz
 - Working without any extra ground plane
 - Gain 3/4 dBi
 - Two antennas are packed into a common ESD bag

Specifications

Electrical data			
Frequency (MHz)	2400 to 2500	2500 to 2700	4900 to 6000
VSWR	2.1	2.1	2.1
Gain (dBi)	2	2	5
3 dB beamwidth (h) (°)	360	360	360
General data			
Nominal impedance (Ω)	50		
Polarisation	vertical		
Composite power max. (W)	2		
Mechanical data			
Dimensions (height × width × depth)	41 × 18 × 1 mm (1.61 × 0.71 × 0.04 in)		
Weight	0.003 kg (0.01 lbs)		
Environmental data			
Environment	indoor		
Operation temperature (°C)	−40 to 70		
RoHS 2011/65/EU	compliant		

Ordering information

Description	Item no.	Version
1399.99.0144	85077727	Pigtail with U.FL

SENCITY® Embedded WiFi dual-band



- Features:
- SENCITY® Embedded WiFi WLAN dual-band antenna
 - Linear vertical polarized omni-directional PCB antenna
 - Wireless bands 2.4 to 2.5 and 4.9 to 5.9 GHz
 - Working without any extra ground plane
 - Gain 3/4 dBi
 - Two antennas are packed into a common ESD bag

Specifications

Electrical data			
Frequency (MHz)	2400 to 2500	2500 to 2700	4900 to 6000
VSWR	2	2	2
Gain (dBi)	2	2	4
3 dB beamwidth (h) (°)	360	360	360

General data	
Nominal impedance (Ω)	50
Composite power max. (W)	2

Mechanical data	
Dimensions (height × width × depth)	44 × 15 × 1 mm (1.73 × 0.59 × 0.04 in)
Weight	0.003 kg (0.01 lbs)

Environmental data	
Environment	indoor
Operation temperature (°C)	−40 to 70
RoHS 2011/65/EU	compliant

Ordering information

Description	Item no.	Version
1399.99.0145	85077742	Pigtail with U.FL

Selection of common and helpful assembly tools

Description	Item no.	Type description	Picture
DAS			
Above false ceiling bracket for SENCITY® Optima	84071923	9091.99.0233	
Below ceiling mounting bracket for SENCITY® Optima	84024380	9091.99.0096	
Metal ground plane foil 0.6 × 0.6 m	84124410	9091.99.0250	
Multi function bracket for SENCITY® Rondo	85067690	9091.99.0258	
Bus			
FM radio stick antenna 88 to 108 MHz	84112255	9091.99.0246	
TETRA stick antenna 380 to 430 MHz	84112256	9091.99.0247	
TETRA stick antenna 450 to 470 MHz	84112257	9091.99.0248	
TETRA stick antenna 410 to 430 MHz	85007967	9091.99.0254	
mm-Wave			
Test adaptor SENCITY® Matrix, type 1360.99.0013	85026210	73_Z-0-0-1022/-1-_NE	
Test adaptor SENCITY® Matrix, type 1378.99.0001	85026843	73_Z-0-0-1023/-1-_NE	
Railway			
SENCITY® Rail antenna grounding kit	84079030	9091.99.0235	
SENCITY® Rail conduit support kit	84079593	9091.99.0236	

Description	Item no.	Type description	Picture
SENCITY® Rail mounting plate	84098894	9090.99.0062	
Adaptor plate for SENCITY® Rail antenna	84148131	9091.99.0252	
12 mm adapter plate for SENCITY® Rail antenna	84008192	9091.99.0189	
Miscellaneous			
Planar antenna wall bracket	84011560	9091.99.0191	
Planar antenna downtilt bracket	84018626	9091.99.0201	
Omni antenna ceiling bracket	84044085	9091.99.0221	
Spot-S antenna down- and sidetilt bracket	84084452	9091.99.0238	
Ceiling bracket for Omni-S Mimo indoor antennas	84085438	9091.99.0240	
L-bracket for Spot-S antennas	84083026	9091.99.0237	
L-bracket for omni stick antennas	23035942	9091.99.0173	
Planar antenna downtilt bracket	84007205	9091.99.0183	
SENCITY® Rail mounting plate	85079842	9091.99.0261	

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HUBER+SUHNER is certified according to ISO 9001, EN(AS)9100, ISO 14001, ISO/TS 16949 and IRIS.

Waiver

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