

Antennas

Edition 2020/02



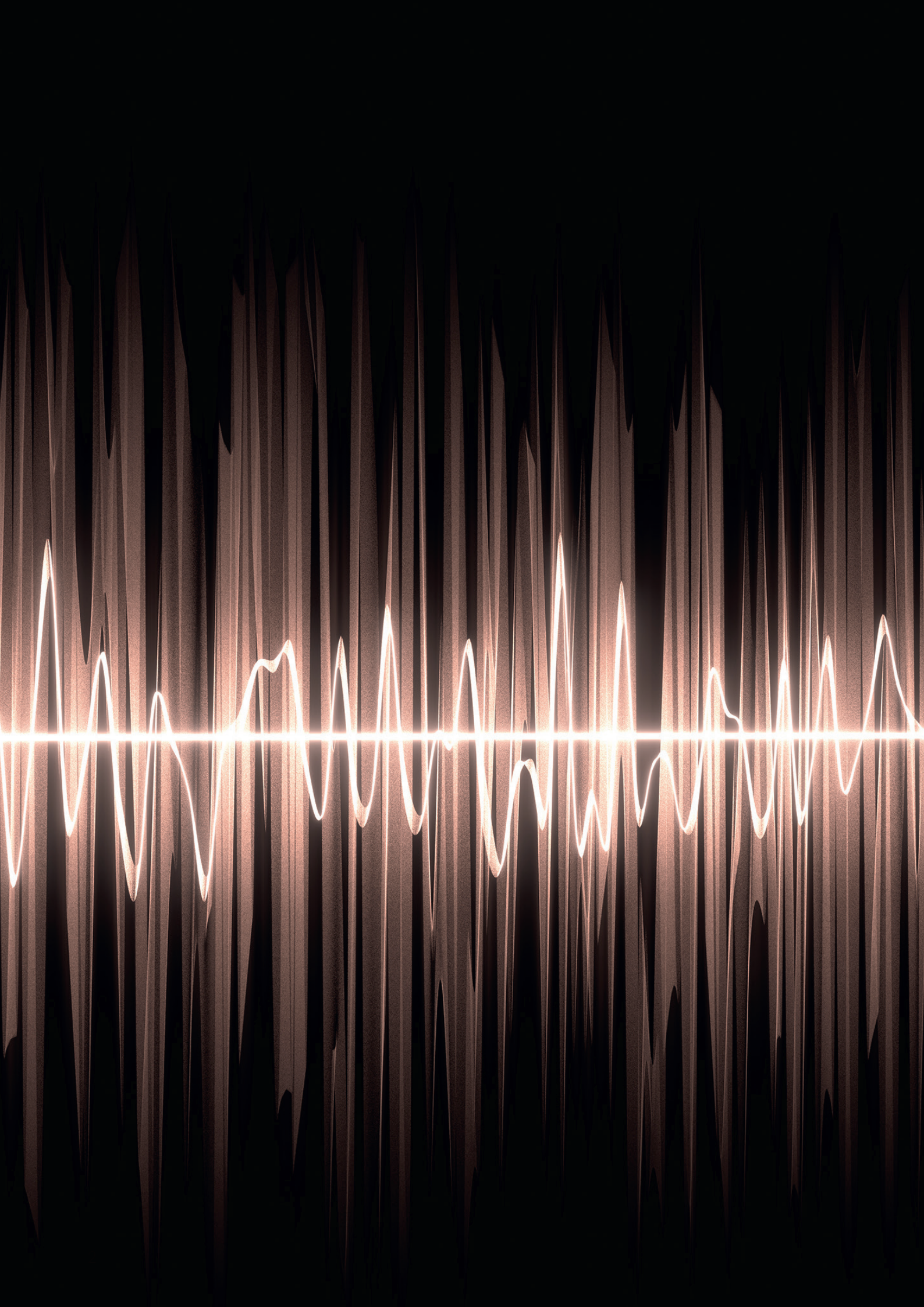
The background features a complex network of glowing blue lines and nodes. The lines are thin and intersect at various points, creating a web-like structure. The nodes are small, bright blue circles that serve as focal points for the lines. The overall color palette is a range of blues, from deep navy to bright cyan, set against a dark, almost black background.

Connecting – today and beyond



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

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



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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® Omni-S

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



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 Stick

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



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® Optima

Ultra-broadband antenna with low profile for indoor DAS.



SENCITY® Road

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



SENCITY® Occhio

SENCITY® Occhio MIMO DAS (Distributed Antenna System) or small cell antenna, offers the operator 5G coverage, a simple, time-saving installation process and an attractive industry preferred design with a small form factor. Thanks to its multi-band capability between 1.7-6 GHz and 2x2/4x4 MIMO configurations it supports today's and future wireless applications.



SENCITY® Rondo

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



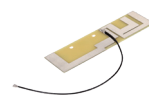
SENCITY® Ultra

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.



SENCITY® Urban 100

Outdoor MIMO antennas covering the high band for 4G and 5G. Different versions available to cover 360° or sectors.



SENCITY® Spot-M Yagi

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



SENCITY® Urban 200

Outdoor directional MIMO antennas covering the high band for 4G and 5G. Different versions available to cover different ranges.












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® Omni-SR Dome |  | | | | | | | | | X | X | X | X | X | | | |
| SENCITY® Omni-S (MIMO) |  | | | X | X | X | X | X | X | X | X | X | X | X | X | | |
| SENCITY® Occhio |  | | | | | | X | X | X | X | X | X | X | | | | |
| SENCITY® Omni-SR MIMO |  | | | | | | | | | X | X | X | X | X | | | |
| SENCITY® Omni-S Dome and SENCITY® Omni-SR Dome |  | | | | | | | X | | X | X | X | X | X | | | |
| SENCITY® Omni-S Slim and SENCITY® Omni-SR Slim |  | | | | | | | | | 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 |
| 6 | 8 | x | | | | | | x | | x | | | x | | x | | 14 |
| 1.5 | 6.5 | x | | x | x | x | | x | | x | | x | | | | | 17 |
| | | | | | | | | | | | | | | | | | 96 |
| 2.3 | 6 | | | | x | | | x | | | | | x | | x | x | 21 |
| 4 | 7.5 | x | | | | | | x | | - | | | x | | x | x | 22 |
| 4 | 6 | | | x | | | | x | | - | | | x | | x | x | 27 |

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 Stick |  | | | | | | x | x | x | x | x | | | | | | |
| SENCITY® Omni-S Thimble |  | | | | | | x | x | x | x | x | x | x | | | | |
| SENCITY® Omni Stick |  | | | | x | x | x | x | x | x | | | x | x | | | |
| SENCITY® Omni Stick |  | | | | | | | | x | | | | | | | | |
| SENCITY® Optima |  | | | 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 | | | |
| SENCITY® Rail MIMO |  | | | | x | x | x | x | x | x | x | x | x | x | | | |
| SENCITY® Rail MULTI |  | | | 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 |
| 2 | 3 | x | | | | | | x | -145 | x | | x | | | | | 30 |
| 1.5 | 2.5 | x | | | | | | x | | x | | x | x | | x | | 33 |
| 5 | 6 | x | | | | | | x | -145 | x | | x | | | | | 34 |
| 7 | 7 | x | | | | | | x | | x | | x | | | | | 38 |
| 2 | 8 | x | | | | | | x | -150 | - | | | | | | | 39 |
| 6 | 9 | x | | | | | | x | | x | | | x | | x | | 40 |
| 4 | 8 | x | | | | | | x | | x | | | x | | x | | 43 |
| 5 | 7 | x | | | | | | x | | x | | | x | | x | | 44 |
| 5 | 8 | | x | | | | | x | | x | | | x | | x | | 45 |
| 5 | 8.5 | | x | | | | | x | | x | | | x | | x | x | 46 |
| 5 | 8.5 | | x | | | | | x | | x | | | x | | x | x | 47 |
| 5 | 7 | | x | | x | | | x | | x | | | x | | x | x | 49 |
| 5 | 7 | | x | | x | | | x | | x | | | x | | x | x | 49 |





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 and SENCITY® Road MIMO |  | 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 | | | | | | |
| SENCITY® Spot-S |  | | | | | X | X | X | | X | X | | X | X | | | |
| SENCITY® Spot-S indoor and SENCITY® Spot-SR |  | | | | | | | | 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 | | | | | | | | |
|------|------|---------------|----------|----------|----------|--------------|-------------|------------------|-------|---------|----------------------|-------------------|------------------|------------------|--------------------|-----------------|------|
| 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 |
| 12 | 12 | | | | | | x | | | x | | | x | | x | | 50 |
| 11 | 14 | | | | | | x | | | x | | | x | | x | | 52 |
| 4 | 7 | x | | | | | | x | | x | x | | | | | | 53 |
| 4 | 6 | | x | | | | | x | | x | x | | | | | | 57 |
| 2 | 7 | | x | | | | | x | -155 | - | | | | | | | 58 |
| 3.5 | 14 | x | x | x | | | x | | | x | x | x | x | x | x | x | 60 |
| 7.5 | 11.5 | x | | | | | x | | | - | | x | | | x | x | 70 |
| 8 | 9 | x | | | | | x | | | - | | | | | | | 74 |
| 8 | 19 | x | x | | | | x | | | x | x | | | | | | 78 |

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) |
| SENCITY® Spot-L |  | | 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 | | | | |
| SENCITY® Urban 100 |  | | | | | | | | | | X | X | | | | |
| SENCITY® Urban 200 |  | | | | | | 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 | | | | | | | | |
|------|-----|---------------|----------|----------|----------|--------------|-------------|------------------|-------|---------|----------------------|-------------------|------------------|------------------|--------------------|-----------------|------|
| 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 |
| 9 | 23 | x | x | x | | | x | | | x | | x | | | | | 85 |
| 11 | 17 | x | | | | | x | | | - | | x | | | | | 88 |
| 14 | 14 | x | | | | | x | | | x | | | x | x | | | 90 |
| 3.5 | 10 | x | | | | | | x | -150 | - | | | | | | | 91 |
| 2 | 7 | | x | | | | x | x | -150 | x | | | | | | | 92 |
| 4 | 7.5 | | x | | | | x | | -150 | x | | | | | | | 94 |
| 1 | 4 | x | | | | x | | x | | - | | | | | | | 98 |

SENCITY® Omni-SR



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 x width x depth) | 50.6 x x mm (1.99 x x 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



Features:

- Omni-directional cellular/4G LTE 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 x diameter) | 33.2 x 145 mm (1.31 x 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



Features:

- Omni-directional cellular/4G LTE 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 x diameter) | 33.2 x 145 mm (1.31 x 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 RAL9010 (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 SISO + 2x2 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 | RAL 7044 (grey) |
| Radome material | PC (Polycarbonate) |

Ordering information

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

SENCITY® Omni-S SISO + 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 x diameter) | 33.2 x 145 mm (1.31 x 5.7 in) |
| Weight | 0.35 kg (0.77 lbs) |
| Connector | SMA (male) |
| Cable type | ENVIROFLEX_316_D |

Environmental data

| | |
|---------------------------------------|-----------|
| Environment | outdoor |
| Operation temperature ($^{\circ}$ 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 |
|--------------|----------|--|
| 1399.19.0006 | 85016093 | 2 x pigtail with SMA (male) |
| 1399.26.0053 | 85102127 | 2 x pigtail with TNC (female) / TNC-R (female) |

SENCITY® Omni-S 3x3 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 x diameter) | 33.2 x 145 mm (1.31 x 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 | RAL 7044 (grey) |
| Radome material | PC (Polycarbonate) |

Ordering information

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

SENCITY® Omni-S 4x4 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 x diameter) | 33.2 x 145 mm (1.31 x 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 x pigtail with SMA-reverse (male) |

SENCITY® Omni-SR 4×4 MIMO



Features:

- Small omnidirectional 4×4 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 to 2500 | 2500 to 2690 | 3400 to 3800 | 4900 to 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 × diameter) | 33.2 × 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 × pigtail 0.5 m with N (male) |
| 1399.17.0246 | 85087896 | 4 × pigtail 1.5 m with N (male), lower gain |
| 1399.35.0010 | 85097487 | 4 × pigtail 1.5 m with QMA (male), lower gain |

SENCITY® Omni-SR Dome



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 x diameter) | 43 x 86 mm (1.69 x 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-SR Dome



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 x diameter) | 43 x 86 mm (1.69 x 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 Dome



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 x diameter) | 43 x 86 mm (1.69 x 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 Dome DECT



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-SR Dome



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 x diameter) | 43 x 86 mm (1.69 x 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-SR Slim 3×3 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 x QMA (female) |

SENCITY® Omni-S Slim 3×3 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 Slim 3×3 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 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 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 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 Thimble



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 x diameter) | 55 x 21 mm (2.17 x 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 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 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 x diameter) | 250 x 25 mm (9.84 x 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 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 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 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 x diameter) | 500 x 20 mm (19.69 x 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 x 30 dBm |
| Polarisation | vertical |
| Composite power max. (W) | 50 |

| Mechanical data | |
|--------------------------------|-------------------------------|
| Dimensions (height x diameter) | 69 x 321 mm (2.72 x x 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 x width x depth) | 90 x 100 x 260 mm (3.54 x 3.94 x 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 x width x depth) | 90 x 100 x 260 mm (3.54 x 3.94 x 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 x width x depth) | 90 x 100 x 256 mm (3.54 x 3.94 x 10.08 in) |
| Weight | 0.8 kg (1.76 lbs) |
| Connector | N (female) |

| Environmental data | |
|--|-----------|
| Environment | outdoor |
| Operation temperature ($^{\circ}\text{C}$) | -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) |

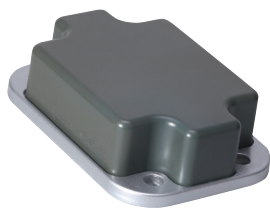
| Environmental data | |
|----------------------------|-----------|
| Environment | outdoor |
| Operation temperature (°C) | -40 to 85 |
| RoHS 2011/65/EU | compliant |
| IP rating | IP69K |

| 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 x width x depth) | 40 x 100 x 145 mm (1.57 x 3.94 x 5.71 in) |
| Weight | 0.488 kg (1.07 lbs) |
| Connector | N (female) |

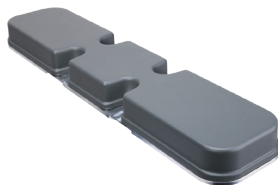
| Environmental data | |
|----------------------------|-----------|
| Environment | outdoor |
| Operation temperature (°C) | -40 to 85 |
| RoHS 2011/65/EU | compliant |
| IP rating | IP69K |

| 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 2x2 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 x width x depth) | 40 x 100 x 465 mm (1.57 x 3.94 x 18.31 in) |
| Weight | 1.2 kg (2.64 lbs) |
| Connector | 2 x 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 2x2 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 x width x depth) | 81.6 x 102.5 x 352.5 mm (3.21 x 4.04 x 13.88 in) |
| Weight | 1.5 kg (3.30 lbs) |
| Connector | 2 x N (female) |
| Cable type | ENVIROFLEX_142 |

| Environmental data | |
|---------------------------------------|-----------|
| Environment | outdoor |
| Operation temperature ($^{\circ}$ 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 | two separate WiFi ports with additional embedded GNSS & LNA |
| 1399.99.0148 | 85085125 | correct out swap with additional embedded GNSS & LNA (Rail MULTI) |

SENCITY® Rail MULTI 5-port



Features:

- Railway rooftop antenna for 2G/3G/4G/5G cellular, WiFi 2.4 and 5 GHz bands
- 4 separate ports for 2x2 cellular MIMO and 2x2 Wifi MIMO
- Rugged design, meets EN 50155 railway standard
- Embedded combined GPS+GLONASS antenna with integrated LNA
- Fire retardant acc. to EN 45545-2
- Works also on non-metallic surfaces
- Dedicated grounding contact (optional)
- Cable conduit support (optional)

Specifications

| Electrical data | Cellular | | | |
|-----------------|------------|------------|--------------|--------------|
| Frequency (MHz) | 694 to 790 | 790 to 960 | 1350 to 2700 | 2700 to 3300 |
| VSWR | 1.7 | 1.8 | 1.9 | 2.0 |
| Gain (dBi) | 5 | 6 | 7.5 | 6.5 |
| Isolation (dB) | 15 | 15 | 20 | 25 |

| Electrical data (cont.) | Cellular | WiFi | GNSS | |
|-------------------------|--------------|--------------|--------------|--------------|
| Frequency (MHz) | 3300 to 4900 | 2400 to 2690 | 4900 to 6425 | 1574 to 1610 |
| VSWR | 2.0 | 2.1 | 2.0 | 1.8 |
| Gain (dBi) | 7.5 | 7.0 | 8 | |
| Isolation (dB) | 20 | 15 | 35 | |

| General data | |
|--------------------------------|----------|
| Nominal impedance (Ω) | 50 |
| Polarisation | vertical |
| Composite power max. (W) | 130 |

| Mechanical data | |
|-------------------------------------|--|
| Dimensions (height x width x depth) | 81.6 102.5 x 352.5 mm (3.21 x 4.04 x 13.88 in) |
| Weight | 1.5 kg (3.30 lbs) |
| Connector | 4 x N (female), 1 x TNC (male) |
| Cable type | RADOX_RF_142, RADOX_RF_316_D |

| Environmental data | |
|---------------------------------------|-----------|
| Environment | outdoor |
| Operation temperature ($^{\circ}$ 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 |
|--------------|----------|--------------------------------|
| 1399.99.0147 | 85082476 | 4 x N (female), 1 x TNC (male) |

SENCITY® Rail MULTI 7-port



Features:

- Railway rooftop antenna
- Covers 2G/3G/4G/5G cellular and WiFi 2.4/5 GHz bands
- Supports multiple MIMO configurations
- 4 radiators for cellular bands in 2x2/4x4 MIMO configurations
- 2 radiators for WiFi/WiMAX band in 2x2 MIMO configurations
- Embedded GPS+Glonass antenna with integrated LNA
- Rugged design, meets EN 50155 railway standard
- Fire retardant acc. to EN 45545-2 and NFPA130

Specifications

| Electrical data | Cellular | | | |
|-----------------|------------|--------------|--------------|--------------|
| Frequency (MHz) | 694 to 960 | 1350 to 2700 | 2700 to 3300 | 3300 to 4900 |
| VSWR | 1.8 | 1.8 | 1.8 | 1.9 |
| Gain (dBi) | 5.0 | 6.0 | 6.0 | 6.0 |
| Isolation (dB) | 13 | 20 | 20 | 20 |

| Electrical data (cont.) | Cellular | WiFi | | GNSS |
|-------------------------|--------------|--------------|--------------|--------------|
| Frequency (MHz) | 4900 to 5975 | 2400 to 2500 | 4900 to 5975 | 1574 to 1610 |
| VSWR | 1.8 | 1.7 | 1.7 | 1.8 |
| Gain (dBi) | 6.0 | 7.0 | 7.0 | |
| Isolation (dB) | 20 | 20 | 20 | |

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

| Mechanical data | |
|-------------------------------------|---|
| Dimensions (height x width x depth) | 84 x 368 x 425 mm (3.31 x 14.49 x 16.73 in) |
| Weight | 6 kg (13.23 lbs) |
| Connector | 6 x N (female), 1 x TNC (male) |
| 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 |
|--------------|----------|--------------------------------|
| 1399.99.0153 | 85104543 | 6 x N (female), 1 x TNC (male) |

SENCITY® Rail MULTI 13-port



Features:

- Railway rooftop antenna
- Covers 2G/3G/4G/5G cellular and WiFi 2.4/5 GHz bands
- Supports multiple MIMO configurations
- 8 radiators for cellular bands in 2x2/4x4 MIMO configurations
- 4 radiators for WiFi/WiMAX band in 4x4 MIMO configurations
- Embedded GPS+Glonass antenna with integrated LNA
- Rugged design, meets EN 50155 railway standard
- Fire retardant acc. to EN 45545-2 and NFPA130

Specifications

| Electrical data | Cellular | | | |
|-----------------|------------|--------------|--------------|--------------|
| Frequency (MHz) | 694 to 690 | 1350 to 2700 | 2700 to 3300 | 3300 to 4900 |
| VSWR | 1.8 | 1.8 | 1.8 | 1.9 |
| Gain (dBi) | 5.0 | 6.0 | 6.0 | 6.0 |
| Isolation (dB) | 13 | 20 | 20 | 20 |

| Electrical data | Cellular | WiFi | | GNSS |
|-----------------|--------------|--------------|--------------|--------------|
| Frequency (MHz) | 4900 to 5975 | 2400 to 2500 | 4900 to 5975 | 1574 to 1610 |
| VSWR | 1.8 | 1.7 | 1.7 | 1.8 |
| Gain (dBi) | 6.0 | 7.0 | 7.0 | |
| Isolation (dB) | 20 | 20 | 20 | |

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

| Mechanical data | |
|-------------------------------------|---|
| Dimensions (height x width x depth) | 84 x 368 x 862 mm (3.30 x 14.49 x 33.94 in) |
| Weight | 11 kg (24.25 lbs) |
| Connector | 12 x N (female), 1 x TNC (male) |
| Cable type | RADOX_RF_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 |
|--------------|----------|---------------------------------|
| 1399.99.0133 | 85010652 | 12 x N (female), 1 x TNC (male) |

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 x width x depth) | 90 x 260 x 100 mm (3.54 x 10.24 x 3.94 in) |
| Weight | 1.4 kg (3.08 lbs) |
| Connector | 2 x 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 x 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® 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 |
|-----------------|------------|------------|--------------|--------------|--------------|--------------|
| | 698 to 790 | 790 to 960 | 1710 to 2690 | 1710 to 2690 | 4900 to 5935 | |
| 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 x width x depth) | 82 x 83 x 208 mm (3.23 x 3.27 x 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 x width x depth) | 82 x 83 x 208 mm (3.23 x 3.27 x 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 ($^{\circ}$ 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 3x3 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 x width x depth) | 82 x 83 x 208 mm (3.23 x 3.27 x 8.19 in) |
| Weight | 0.41 kg (0.90 lbs) |
| Connector | 3 x 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 x 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 2x2 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 x width x depth) | 88 x 83 x 208 mm (3.46 x 3.27 x 8.19 in) |
| Weight | 0.4 kg (0.88 lbs) |
| Connector | 2 x 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 600



Features:

- Indoor DAS omni-directional antenna for In-building coverage
- 617 to 4200 MHz
- AMPS, GSM, PCS, CDMA, UMTS, WiFi, WLAN 2.4, LTE
- ETL tested for Plenum space (UL 2043)
- Design patent DM/088510
- MIMO 2x2

Specifications

| Electrical data | | | | | | | |
|-----------------|------------|------------|------------|--------------|--------------|--------------|--------------|
| Frequency (MHz) | 617 to 698 | 698 to 790 | 790 to 960 | 1695 to 2180 | 2180 to 2400 | 2400 to 2690 | 3300 to 4200 |
| VSWR | 1.8 | 1.9 | 2 | 1.6 | 1.6 | 1.5 | 2 |
| Gain (dBi) | 2.5 | 3.5 | 4.5 | 5 | 6 | 6.5 | 5.5 |
| Isolation (dB) | 13 | 15 | 17 | 20 | 18 | 18 | 21 |

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

| Mechanical data | |
|--------------------------------|------------------------------|
| Dimensions (height x diameter) | 87 x 238 mm (3.42 x 9.37 in) |
| Weight | 0.82 kg (1.8 lbs) |
| Connector | 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 |
|--------------|----------|-----------------|
| 1399.31.0007 | 85086028 | 4.3-10 (female) |

SENCITY® Rondo 700



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
- MIMO 2x2

Specifications

| Electrical data | | | | | | | |
|-----------------|------------|------------|----------------|--------------|--------------|--------------|--------------|
| Frequency (MHz) | 698 to 790 | 790 to 960 | 1447 to 1660.5 | 1695 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 | 20 | 23 | 20 | 23 | 30 |

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

| Mechanical data | |
|--------------------------------|-------------------------------|
| Dimensions (height x diameter) | 87 x 238 mm (3.42 x 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 |
|--------------|----------|-----------------|
| 1399.31.0010 | 85080511 | 4.3-10 (female) |

SENCITY® Spot-S



Features:

- UHF RFID or mobile communication 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



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



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 x width x depth) | 101 x 81 x 36 mm (3.98 x 3.19 x 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) |

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) |

SENCITY® Spot-S



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 x width x depth) | 101 x 81 x 36 mm (3.98 x 3.19 x 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



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 MIMO



Features:

- Directional, planar, linear polarized WiFi antenna with 8 dBi gain
- Dual-slant $\pm 45^\circ$ for 2x2 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 MIMO



Features:

- Directional, planar, linear polarized WiFi antenna with 9 dBi gain
- Dual-slant $\pm 45^\circ$ for 2x2 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 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



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



Features:

- Planar indoor antenna
- 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 x width x depth) | 101 x 80 x 20 mm (3.98 x 3.15 x 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-SR



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-SR



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



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



Features:

- Planar indoor DECT antenna
- Polarisation: circular polarised
- 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) polarisation LHCP circular left-hand |
| 1319.19.0005 | 22650451 | SMA (female) polarisation RHCP circular right-hand |

SENCITY® Spot-S



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



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 x width x depth) | 190 x 190 x 30 mm (7.48 x 7.48 x 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 2×2 MIMO



Features:

- Directional, planar, dual linear vertical and horizontal polarized WiFi antenna
- For 2×2 WiFi MIMO configuration - WLAN WiFi IEEE 802.11 b/g/n/ac
- Frequency bands for 2.3 to 2.7 GHz per each port, high gain 14 dBi
- For outdoor or indoor applications
- Ingress protection IP67

Specifications

| Electrical data | |
|--------------------------|--------------|
| Frequency (MHz) | 2300 to 2700 |
| VSWR | 2 |
| Gain (dBi) | 14 |
| 3 dB beamwidth (h) (°) | 35 |
| 3 dB beamwidth (v) (°) | 35 |
| Front to back ratio (dB) | 25 |
| Isolation (dB) | 30 |

| 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 | 0.5 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 |
|--------------|----------|------------|
| 1324.17.0117 | 85104342 | 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 x width x depth) | 190 x 190 x 30 mm (7.48 x 7.48 x 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 2×2 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) |
| 1356.17.0093 | 85094773 | 2 × N (female) – with 45° turned mounting option |

SENCITY® Spot-L



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 x width x depth) | 305 x 305 x 25 mm (12.01 x 12.01 x 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



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 2×2 MIMO



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



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 x width x depth) | 305 x 305 x 15 mm (12.01 x 12.01 x 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 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:

- 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 x width x depth) | 650 x 320 x 32 mm (25.59 x 12.60 x 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



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 x width x depth) | 80 x 420 x 80 mm (3.15 x 16.54 x 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



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 x 43 dBm |
| Polarisation | vertical |
| Composite power max. (W) | 100 |

| Mechanical data | |
|-------------------------------------|--|
| Dimensions (height x width x depth) | 153.6 x 78.6 x 255 mm (6.05 x 3.09 x 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® Urban 100



Features:

- Outdoor MIMO 2x2 omnidirectional antenna for 4G and 5G frequency bands
- 2500-2690, 3300-3800, 3800-4200MHz
- Compact solution with very high isolation between ports to maximize MIMO performances
- Very low PIM

Specifications

| Electrical data | | | |
|------------------------|--------------|--------------|--------------|
| Frequency (MHz) | 2500 to 2690 | 3300 to 3800 | 3800 to 4200 |
| VSWR | 2.0 | 2.0 | 2.0 |
| Gain (dBi) | 2 | 2.5 | 2.5 |
| 3 dB beamwidth (v) (°) | 65 | 55 | 55 |
| Isolation | 30 | 30 | 30 |

| General data | |
|-----------------------|--------------------------------------|
| Nominal impedance (Ω) | 50 |
| IMD level (dBc) | -150 at 2 × 43 dBm |
| Polarisation | port 1: vertical, port 2: horizontal |

| Mechanical data | |
|--------------------------------|-----------------------------|
| Dimensions (height × diameter) | 96 × 117 mm (3.78 × 4.6 in) |
| Weight | 0.45 kg (0.99 lbs) |

| Environmental data | |
|----------------------------|-----------|
| Environment | outdoor |
| Operation temperature (°C) | -40 to 70 |
| RoHS 2011/65/EU | compliant |

| Material data | |
|---------------|-----------------------|
| Radome colour | RAL 7035 (light-grey) |

Ordering information

| Description | Item no. | Version |
|--------------|----------|-----------------------------------|
| 1399.32.0004 | 85113723 | Nex10 connectors |
| 1399.17.0253 | 85106726 | low loss pigtail and N connectors |

SENCITY® Urban 100



Features:

- Outdoor MIMO 2x2 directional antenna for 4G and 5G frequency bands
- 2500-2690, 3300-3800, 3800-4200 MHz
- Dual slant polarization.
- Very low PIM

Specifications

| Electrical data | | | |
|---------------------------|--------------|--------------|--------------|
| Frequency (MHz) | 2500 to 2690 | 3300 to 3800 | 3800 to 4200 |
| VSWR | 2.0 | 2.0 | 2.0 |
| Gain (dBi) | 4 | 7 | 7.5 |
| 3 dB beamwidth (h) (°) | 65 | 65 | 55 |
| 3 dB beamwidth (v) (°) | 65 | 65 | 58 |
| Front to back ration (dB) | 8 | 13 | 14 |
| Isolation | 20 | 20 | 20 |

| General data | |
|--------------------------------|---------------------------|
| Nominal impedance (Ω) | 50 |
| IMD level (dBc) | -150, at 2 x 43 dBm |
| Polarisation | $\pm 45^\circ$ dual slant |

| Mechanical data | |
|--------------------------------|-----------------------------|
| Dimensions (height x diameter) | 96 x 117 mm (3.78 x 4.6 in) |
| Weight | 0.45 kg (0.99 lbs) |

| Environmental data | |
|----------------------------|-----------|
| Environment | outdoor |
| Operation temperature (°C) | -40 to 70 |
| IP rating | IP66 |
| RoHS 2011/65/EU | compliant |

| Material data | |
|---------------|-----------------------|
| Radome colour | RAL 7035 (light-grey) |

Ordering information

| Description | Item no. | Version |
|--------------|----------|-----------------------------------|
| 1399.32.0003 | 85121225 | Nex10 connectors |
| 1399.17.0255 | 85106948 | low loss pigtail and N connectors |

SENCITY® Urban 200



Features:

- Outdoor MIMO 2x2 directional antenna (1695-2690 and 3300-4200MHz) with:
H-HPBW
110° (1.7-2.7 GHz)
110° (3.3-4.2 GHz)
- Low PIM

Specifications

| Electrical data | | | | | |
|--------------------------|--------------|--------------|--------------|--------------|--------------|
| Frequency (MHz) | 1695 to 1920 | 1920 to 2180 | 2300 to 2690 | 3300 to 3800 | 3800 to 4200 |
| VSWR | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Gain (dBi) | 5.7 | 4.8 | 5.0 | 5.9 | 4.9 |
| 3 dB beamwidth (h) (°) | 100 | 120 | 100 | 110 | 120 |
| 3 dB beamwidth (v) (°) | 105 | 120 | 95 | 95 | 85 |
| Isolation | 20 | 20 | 18 | 20 | 20 |
| Composite power max. (W) | 125 | 125 | 110 | 95 | 90 |
| Front to back ratio (dB) | 10 | 11 | 11 | 15 | 12 |
| Co/crosspolar ratio | 27 | 22 | 14 | 15 | 19 |

| General data | |
|-----------------------|--------------------|
| Nominal impedance (Ω) | 50 |
| IMD level (dBc) | -150 at 2 × 43 dBm |
| Polarisation | ±45° dual slant |

| Mechanical data | |
|-------------------------------------|--|
| Dimensions (height × width × depth) | 184.8 × 164.6 × 84.2 mm (7.27 × 6.48 × 3.3 in) |
| Weight | 0.5 kg (1.1 lbs) |

| Environmental data | |
|----------------------------|----------------|
| Environment | indoor/outdoor |
| Operation temperature (°C) | -40 to 70 |
| RoHS 2011/65/EU | compliant |
| IP rating | IP66 |

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

Ordering information

| Description | Item no. | Version |
|--------------|----------|------------------|
| 1399.32.0002 | 85117565 | Nex10 connectors |
| 1399.17.0250 | 85110147 | N connectors |

SENCITY® Urban 200



Features:

- Outdoor MIMO 2x2 directional antenna (1695-2690 and 3300-4200MHz) with:
 - H-HPBW
 - 70 (1.7-2.7 GHz)
 - 65 (3.3-4.2 GHz)
- Low PIM

Specifications

| Electrical data | | | | | |
|--------------------------|--------------|--------------|--------------|--------------|--------------|
| Frequency (MHz) | 1695 to 1920 | 1920 to 2180 | 2300 to 2690 | 3300 to 3800 | 3800 to 4200 |
| VSWR | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Gain (dBi) | 7.4 | 7.3 | 7.4 | 7.2 | 8.4 |
| 3 dB beamwidth (h) (°) | 75 | 75 | 70 | 60 | 65 |
| 3 dB beamwidth (v) (°) | 80 | 90 | 70 | 60 | 50 |
| Isolation | 18 | 20 | 20 | 17 | 19 |
| Composite power max. (W) | 125 | 125 | 110 | 95 | 90 |
| Front to back ratio (dB) | 16 | 15 | 14 | 20 | 20 |
| Co/crosspolar ratio | 19 | 15 | 15 | 15 | 17 |

| General data | |
|--------------------------------|---------------------------|
| Nominal impedance (Ω) | 50 |
| IMD level (dBc) | -150, at 2 x 43 dBm |
| Polarisation | $\pm 45^\circ$ dual slant |

| Mechanical data | |
|-------------------------------------|--|
| Dimensions (height x width x depth) | 184.8 x 164.6 x 84.2 mm (7.27 x 6.48 x 3.3 in) |
| Weight | 0.5 kg (1.1 lbs) |

| Environmental data | |
|----------------------------|----------------|
| Environment | indoor/outdoor |
| Operation temperature (°C) | -40 to 70 |
| RoHS 2011/65/EU | compliant |
| IP rating | IP66 |

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

Ordering information

| Description | Item no. | Version |
|--------------|----------|------------------|
| 1399.32.0001 | 85117564 | Nex10 connectors |
| 1399.17.0248 | 85110146 | N connectors |

SENCITY® Occhio MIMO 2x2



Features:

- 1.7-6 GHz
- Offers 5G coverage
- Simple, time-saving installation process, with included clip bracket
- Attractive industry preferred design with a small form factor

Specifications

| Electrical data | | | | |
|---------------------|--------------|--------------|--------------|--------------|
| Frequency (MHz) | 1695 to 2690 | 3200 to 4200 | 4500 to 5000 | 5150 to 6000 |
| VSWR | 1.5 | 1.5 | 1.5 | 1.5 |
| Gain (dBi) | 4.5 | 4.5 | 6.0 | 6.5 |
| Port isolation (dB) | 19.5 | 22 | 25 | 25 |

| Ports | Port 1 | Port 2 |
|------------------|----------------------|----------------------|
| Connector | NEX10, jack (female) | NEX10, jack (female) |
| Cable Length (m) | 0.5 | 0.5 |
| Polarisation | vertical | vertical |
| DC grounded | no | no |

| General data | |
|--------------------------------|--------------------|
| Nominal impedance (Ω) | 50 |
| IMD level (dBc) | -153 at 2 x 43 dBm |

| Mechanical data | |
|--------------------------------|------------------------------|
| Dimensions (height x diameter) | 32 x 200 mm (1.26 x 7.87 in) |

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

| Material data | |
|------------------------------|-------|
| Radome colour | white |
| Back plate/base plate colour | black |

Ordering information

| Description | Item no. | Version |
|--------------|----------|--|
| 1399.32.0013 | 85115709 | includes cable assemblies: SUCOFORM_122_LA Plenum cable with Nex10 male (antenna side) and 4.3-10 male (network connection side) |
| 1399.32.0015 | 85138318 | no cable included |

SENCITY® Occhio MIMO 4x4



Features:

- 1.7-6 GHz
- Offers 5G coverage
- Simple, time-saving installation process, with included clip bracket
- Attractive industry preferred design with a small form factor

Specifications

| Electrical data | | | | |
|---------------------|--------------|--------------|--------------|--------------|
| Frequency (MHz) | 1695 to 2690 | 3200 to 4200 | 4500 to 5000 | 5150 to 6000 |
| VSWR | 1.5 | 1.5 | 1.5 | 1.5 |
| Gain (dBi) | 4 | 4.5 | 6.5 | 6.5 |
| Port isolation (dB) | 18 | 22 | 25 | 25 |

| Ports | Port 1 | Port 2 | Port 3 | Port 4 |
|--------------|----------------------|----------------------|----------------------|----------------------|
| Connector | NEX10, jack (female) | NEX10, jack (female) | NEX10, jack (female) | NEX10, jack (female) |
| Polarisation | vertical | vertical | vertical | vertical |
| DC grounded | no | no | no | no |

| General data | |
|--------------------------------|--------------------|
| Nominal impedance (Ω) | 50 |
| IMD level (dBc) | -153 at 2 x 43 dBm |

| Mechanical data | |
|--------------------------------|------------------------------|
| Dimensions (height x diameter) | 32 x 200 mm (1.26 x 7.87 in) |

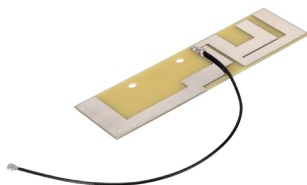
| Environmental data | |
|----------------------------|-----------|
| Environment | indoor |
| Operation temperature (°C) | 0 to 55 |
| RoHS 2011/65/EU | compliant |

| Material data | |
|------------------------------|-------|
| Radome colour | white |
| Back plate/base plate colour | black |

Ordering information

| Description | Item no. | Version |
|--------------|----------|--|
| 1399.32.0014 | 85114460 | includes cable assemblies: SUCOFORM_122_LA Plenum cable with Nex10 male (antenna side) and 4.3-10 male (network connection side) |
| 1399.32.0016 | 85137888 | no cable included |

SENCITY® Embedded



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 |

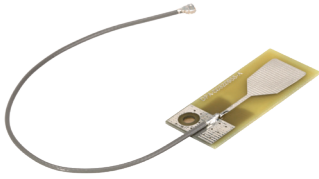
| Mechanical data | |
|-------------------------------------|--|
| Dimensions (height x width x depth) | 98 x 29 x 0.9 mm (3.86 x 1.14 x 0.04 in) |
| Weight | 0.005 kg (0.01 lbs) |

| 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



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 |

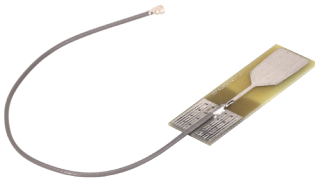
| Mechanical data | |
|-------------------------------------|--|
| Dimensions (height x width x depth) | 41 x 18 x 1 mm (1.61 x 0.71 x 0.04 in) |
| Weight | 0.003 kg (0.01 lbs) |

| 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



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 |

Accessories and mounting brackets

| Description | Item no. | Type description | Picture |
|---|----------|----------------------|---|
| DAS | | | |
| 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 |  |
| SENCITY® Rail mounting plate | 84098894 | 9090.99.0062 |  |
| Adaptor plate for SENCITY® Rail antenna | 84148131 | 9091.99.0252 |  |

| Description | Item no. | Type description | Picture |
|---|----------|------------------|---|
| 12 mm adapter plate for SENCITY® Rail antenna | 84008192 | 9091.99.0189 |  |
| SENCITY® Rail mounting plate | 85079842 | 9091.99.0261 |  |
| Miscellaneous | | | |
| Planar antenna wall bracket | 84011560 | 9091.99.0191 |  |
| Planar antenna downtilt bracket | 84018626 | 9091.99.0201 |  |
| Planar antenna downtilt bracket | 84007205 | 9091.99.0183 |  |
| Omni antenna ceiling bracket | 84044085 | 9091.99.0221 |  |
| Spot-S antenna down- and sidetilt bracket | 84084452 | 9091.99.0238 |  |
| Spot-S antenna 3D adjustment bracket | 85100336 | 9091.99.0267 |  |
| L-bracket for Spot-S antennas | 84083026 | 9091.99.0237 |  |
| L-bracket for omni stick antennas | 23035942 | 9091.99.0173 |  |

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

Waiver

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