

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)

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- Works also on non-metallic surfaces

Specifications

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

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

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

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

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

Ordering information

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

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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)

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- Fire retardant acc. to BS 6853, EN 45545-2

Specifications

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

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

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

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

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

Ordering information

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