DATA SHEET

SENCITY® Spot-M 2x2 WiFi MIMO Antenna

1356.17.0093

Properties

- Directional high gain antenna for Wi-Fi or Cellular bands between 5150 and 5875 MHz
- Gain of 19 dBi with Vertical and Horizontal Polarisation (or Dual Slant depending on mounting orientation)
- Half power beamwidth of 17° (vertical) and 17° (Horizontal)
- Mounting brackets for wall or pole mounting sold seperately
- Integrated N female interfaces



Electrical bands		
	Band 1	**Band 2**
Frequency (MHz)	5150 MHz ... 5725 MHz	5725 MHz ... 5875 MHz
Impedance	50 Ω	50 Ω
VSWR	1.7	1.7
Gain (dBi)	19 dBi	19.5 dBi
Halfp Beamwidth vertical	17 dBi	17 dBi
Halfp Beamwidth horizontal	17 °	17 °
Isolation between Ports	30 dB	30 dB
Vertical Electrical Tilt	0 °	0 °
Front to back ratio	30 dB	30 dB
Ambient Temperature	25 °C	25 °C
Composite Power max	6 W	6 W
Co/Crosspolar Ratio	20 dB	20 dB

Ports		
Port name	HOR	VER
Connector	N, jack (female)	N, jack (female)
Polarization	linear	linear

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Connections		
Port number		
Band 1	✓	✓
Band 2	✓	✓

Mechanical data	
Weight	0.7 kg
Dimensions	190 mm x 190 mm x 30 mm (Heigth x Width x Depth)
Windload	front: 105 N at 160 km/h, lateral: 16 at 160 km/h, Wind Speed survival: 220 km/h
Remarks	Antenna can be mounted and operated in two different polarization options: Dual-slant +/-45° when mounted at diamond shape orientation, or dual polarisation vertical and horizontal when mounted up-right 0°/90° orientation. Both antenna orientations fit to the standard mounting bracket accessory, type No. 9091.99.0201.

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

Environmental data	
Operation temperature	-55 °C ... 70°C
Storage temperature	-55 °C ... 70°C
Transport temperature	-55 °C ... 70°C
Environment (application)	Indoor/Outdoor
Ingress protection (IP Rating)	IP67

Environmental remarks
"Low temperatureIEC 60068-2-1; 72h; -55°C High temperatureIEC 60068-2-2; 72h; +71°C Temperature cyclingIEC 60068-2-14; 1h; -45 to +70°C; 3 cycles Humidity ETSI EN300-2-4 T4.1E; 144h; 95% Solar radiationASTM G53; 1000 h Salt sprayIEC 60068-2-11 Ka; 500 h Mechanical shockIEC 60721-3-4; 4M3 VibrationIEC 60721-3-4; 30 min/axis; random 4M3"

Additional Information
Antenna dimensions, ports and funtions are identical to the SENCITY Spot-M antenna item 1356.17.0023 (www.hubersuhner.com/ProdDat/84018715) and therefore can meet identical standards and norms.

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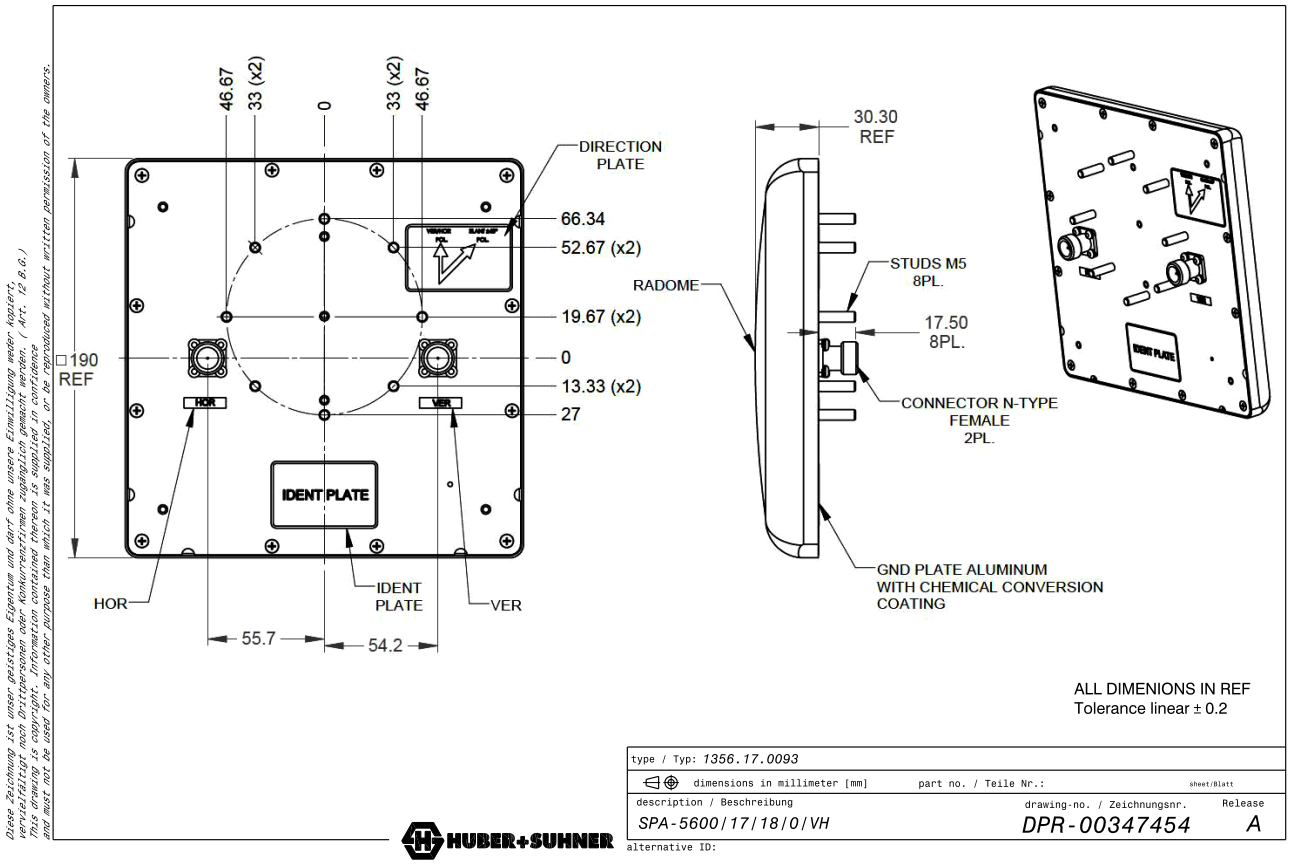
Outline drawing



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