90 Degree, 16 dBi Sector Antenna, Dual H & V-polarized, 5.25-5.85GHz



SEC-5.5D-90-16

The SEC Sectors Series by RadioWaves offers a full line of high performance sector antennas engineered to provide a broad selection of beamwidths (40, 60, 90, 120 degrees) as well as excellent gain. RadioWaves field-proven pre-assembled antennas and robust easy to install mounting system ensure “set and forget” installation with minimal post-installation maintenance. If it’s rugged, it must be RadioWaves!

FEATURES AND BENEFITS
O High Performance Sector Antennas – Excellent performance for a wide range of applications
O Fully Preassembled at the Factory – Simplifies installation on site and guarantees “factory-tested” quality

SPECIFICATIONS

General

Antenna Type	Sector Antenna
Size, nominal	3.458 ft | 1.054 m
Polarization	Dual H & V

Standard RF Connector Type	N-Female
Standard RF Connector Suffix	Not Applicable: No model number suffix required

Electrical

Operating Frequency Band	5.25 - 5.85 GHz
Half Power Beamwidth, Horizontal	90 degrees
Half Power Beamwidth, Vertical	8 degrees
Cross-Polarization Discrimination	25 dB
Front to Back Ratio (F/B)	35 dB

Gain, Low Frequency	15.5 dBi
Gain, Mid Frequency	16 dBi
Gain, High Frequency	16.5 dBi
VSWR	1.5:1
Return Loss	-14 dB

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Mechanical

Fine Azimuth Adjustment	Supplied with coarse az adjust only
Fine Elevation Adjustment	+/- 5 degrees
Mounting Pipe Diameter, Min	2 inch | 5.1 cm
Mounting Pipe Diameter, Max	4.5 inch | 11.4 cm
Net Weight	7 lbs | 3.2 kg
Wind Velocity Operational	90 mph | 145 km/h
Wind Velocity Survival Rating	125 mph | 201 km/h

Mechanical Configuration	SEC2
Axial Force (FA)	139 lbs | 619 N
Side Force (FS)	48 lbs | 214 N
Twisting Moment (MT)	0 ft-lbs | 0 Nm
Operating Temperature Range	-40 to +60 C
Max Pressure, PSIG, (if waveguide interface)	na

Regulatory Compliance

FCC	undeclared
Industry Canada Compliance	undeclared

ETSI	undeclared
RoHS-compliant	Yes

Shipping Information

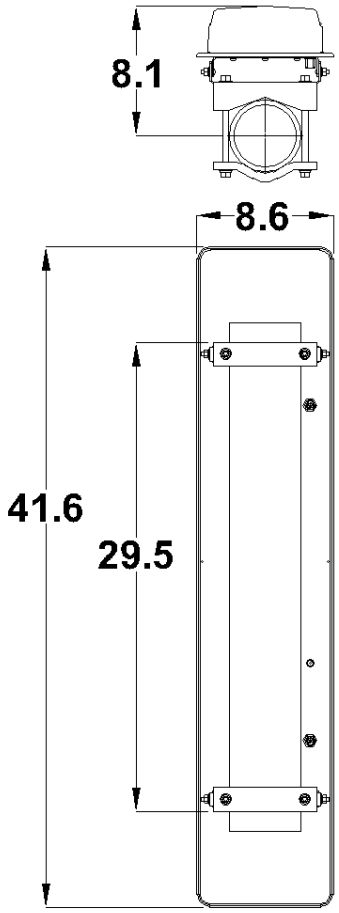
Package Type	Cardboard
Gross Weight	8 lbs | 3.6 kg

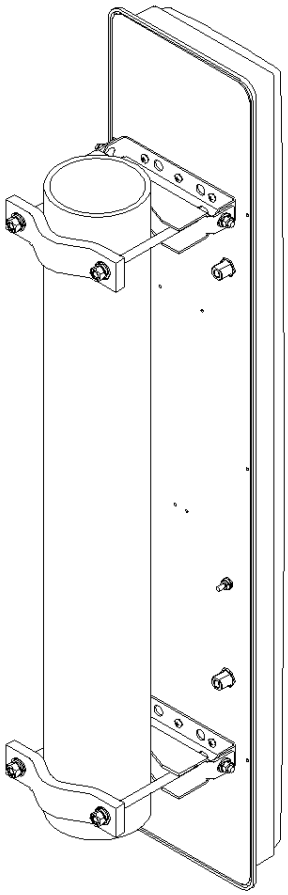
Dimensions, L x W x H	13 x 44 x 9in | 33 x 112 x 23 cm
Shipping Volume	3 cu ft | 0.08 cu m

*Additional OEM interfaces and adapters may be available. Contact RadioWaves for a complete and current list of available adapters.

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TECHNICAL DRAWINGS





SEC2

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