

SEC-3.5DX8-65-18

0.9 M | 3FT. SECTOR ANTENNA, SLANT +/-45 POLARIZED, 3.3 TO 4.2 GHZ

The SEC-3.5DX8-65-18 3.5 GHz 8-port Sector Antenna from RadioWaves with Type N connectors provides industry leading gain, side lobes suppression, and high front to back ratio. The SEC-3.5DX8-65-18 has 18 dBi gain with 65° beamwidth and is perfectly suited for macro base station or small cell deployments. Available in dual +/-45 slant polarization, this antenna works from 3.3 GHz – 4.2 GHz.

The 8 Type N connectors make 2x2, 4x4, and 8x8 mimo configurations possible for high speeds or multiple technology deployments. The RadioWaves SEC-3.5DX8-65-18 sector antenna patterns are engineered to be symmetric in both polarizations. The sector antenna's 15 dB side lobe suppression and 30 dB front to back ratio allows for channel (frequency) reuse and can reach high levels of spectral efficiency in the most challenging and noisy environments.

The 3300 to 4200 MHz SEC-3.5DX8-65-18 sector antenna with 8 x N-type female connector has Universal radio brackets that are compatible with many popular radios. Our expert technical support and friendly, knowledgeable customer service personnel are available to assist you with your multiport macro base station antenna needs. The RadioWaves SEC-3.5DX8-65-18 is in stock and ready to ship the same day.

Features:

- 17 to 18 dBi gain
- Superior port isolation, cross polarization discrimination, gain, VSWR, and front-to-back
- 3300 to 4200 MHz for world-wide markets
- 30 dB Front to Back Ratio
- Eight (8) N Female Connectors
- Heavy-duty aluminum brackets with powder coated steel hardware
- Universal radio bracket with quick-release slot/clip design is compatible with many AP radios

Applications

- 3.5 GHz Citizens Broadband Radio Service (CBRS) applications
- Extended CBRS for 4.2 GHz (EMEA and UK) use
- Wireless LAN systems & IEEE 802.16e applications
- Mobile WiMAX Wireless Internet Provider "cell" sites
- SOFDMA
- Outdoor or indoor point-to-point (PtP) or point-to-multipoint



(PtMP) in CBRS band

- For use in LTE and 5G bands n42, n43, n48, n49, n52, n77 and n78
- 4x4 and 8x8 MIMO ready

SPECIFICATIONS

General

Antenna Type	Sector Antenna	Polarization	Slant 45 +/-
Size, nominal	3 ft 0.9 m	Standard RF Connector Type	N-Female

Electrical

Operating Frequency Band	3.3 - 4.2 GHz	Gain, High Frequency	18 dBi
Half Power Beamwidth, Horizontal	65 degrees	VSWR	2.0:1
Half Power Beamwidth, Vertical	6.5 degrees	Return Loss	-10 dB
Cross-Polarization Discrimination	15 dB	Port to Port Isolation, Max (dB)	25 dB
Front to Back Ratio (F/B)	30 dB	Electrical Downtilt, Degrees	3.5 degrees
Gain, Low Frequency	17.5 dBi	Input Power per Port, Max (Watts)	100 Watts
Gain, Mid Frequency	17.7 dBi		

Mechanical

Fine Elevation Adjustment	+/- 5 degrees	Wind Velocity Survival Rating	125 mph 201 km/h
Mounting Pipe Diameter, Min	2 inch 5.1 cm	Mechanical Configuration	SEC-3.5DX8
Mounting Pipe Diameter, Max	4.5 inch 11.4 cm	Axial Force (FA)	13 lbs 58 N
Net Weight	0 lbs 0 kg	Side Force (FS)	13 lbs 58 N
Wind Velocity Operational	90 mph 145 km/h	Operating Temperature Range	-40 to +60 C

Regulatory Compliance

Industry Canada Compliance	undeclared
RoHS-compliant	Yes

Shipping Information

Package Type	Cardboard	Dimensions, L x W x H	55 x 12 x 8in 139.7 x 30.48 x 20.32 cm
Gross Weight	27.2 lbs 12.4 kg	Shipping Volume	3.1 cu ft 0.09 cu m

8 type N connectors to support MIMO Operation

TECHNICAL DRAWINGS

