Product Data Sheet

KP-3SX4-90

3.3 GHz to 3.8 GHz, 90 Degree Sector Antenna, 17.0 dBi, 4-Port, ±45 Slant

- 0° fixed electrical downtilt
- High 17dBi gain with dual slant polarization
- Ideal for 4-sector frequency-reuse two with LTE equipment and CBRS deployments
- Supports one 4x4 MIMO or two 2x2 MIMO radios in the CBRS band

Electrical Specification

Frequency Band	MHz	3300—3550	3550—3800
Gain	dBi	16.5±0.5	17.0±0.3
Polarization		Slant (±45°)	Slant (±45°)
Horizontal HPBW	Degree	95±5	90±5
Horizontal Squint	Degree	±3	±3
Vertical HPBW	Degree	6.5±0.3	6±0.3
Electrical Downtilt	Degree	0	0
Front-to-Back Ratio @ 180°±30°	dB	30	30
Cross-polarization Ratio over HPBW	dB	15	14
VSWR		1.5 typ | 2 max	1.5 typ | 1.7 max
Return Loss	dB	14 typ | 10 max	14 typ | 12 max
Port-to-Port Isolation	dB	25	25
Max. Input Power per Port	W	50	50
Impedance	Ohms	50	50

Mechanical Specifications

RF Connector Type	N-Type Female
RF Connector Quantity	4
RF Connector Position	Bottom of radome
Electrical Grounding	RF connector grounded to reflector and mounting bracket
Radome Material	UV resistant PVC
Ingress Protection	IP55 rain and dust resistant
Wind Load, frontal	240N @ 160km/h | 54 lbf @ 100 mph
Max. Wind Speed	160km/h | 100mph
Temperature Range	-40° to +60° C | -40° to +140° F

Bracket Specifications

Material Type	Power Coated Steel
Mechanical Tilt (Degree)	-2 – 8
Mounting Type	Pipe Mount
Mounting pole diameter	25 mm – 89 mm | 1.25 in – 3.5 in
Antenna-to-Pipe Distance	76 mm | 3 in
Bracket-to-Bracket Distance	524 mm | 20.6 in

KP Performance Inc., P.O. Box 16759, Irvine, CA 92623
Phone: (855) 276-5772 or (780) 702-7577
info@kpperformance.com

Product Data Sheet

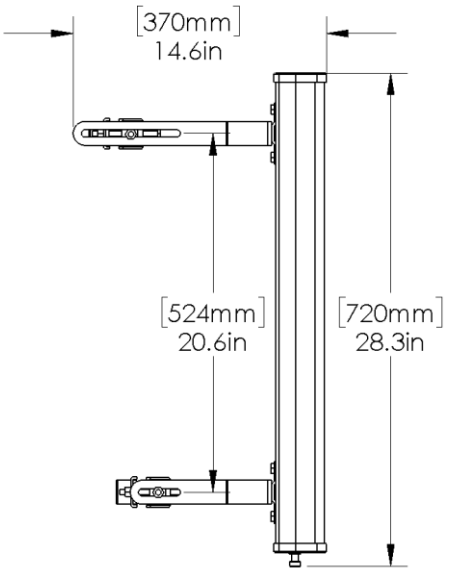
Sector Dimensions

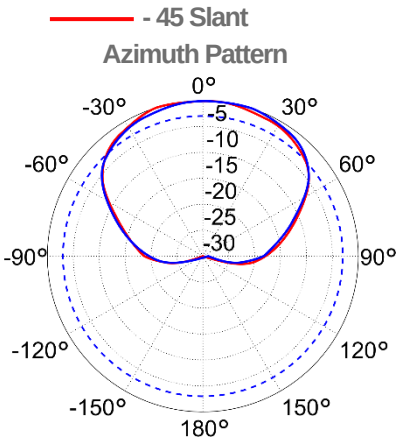
Length	720 mm | 28.3 in
Width	279 mm | 11 in
Height	89 mm | 3.5 in
Net Weight, with brackets	10.0 kg | 22 lb

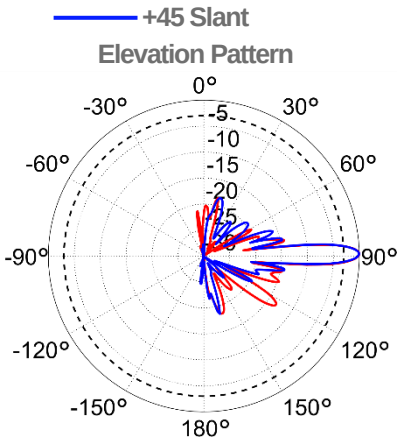
Package Dimensions

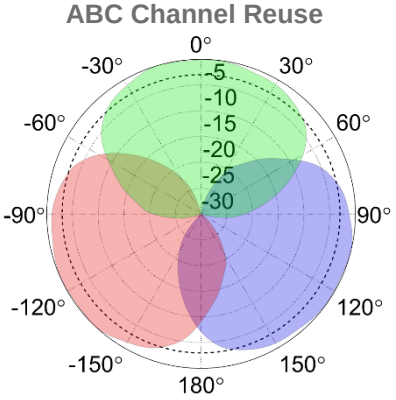
Length	775 mm | 32 in
Width	340 mm | 14 in
Height	195 mm | 8 in
Net Weight	11.0 kg | 24 lb

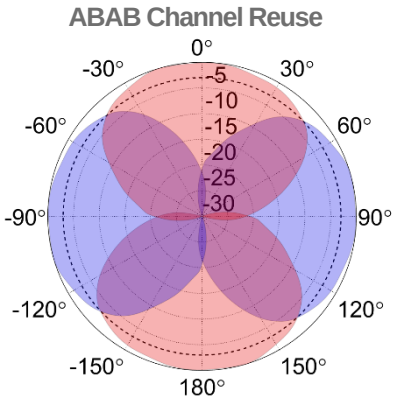
Graphical Data











Appendix

HPBW: Average and variation of the antenna's 3dB beamwidth in its horizontal (Azimuth) or vertical (Elevation) pattern.
Horizontal Squint: Angle in the antenna's azimuth pattern in which the maximum gain occurs. Reported is the maximum variation in the frequency band.
Electrical Downtilt: Angle in the antenna's elevation pattern in which the maximum gain occurs.
Gain: Antenna's average gain and variation in each frequency band.
Front to Back Ratio @ 180°±30°: Difference between the antenna's average gain and the average gain in the antenna's back-lobe over ±30° angles.
Cross-polarization Ratio over HPBW (dB): Typical difference between the co-polarization and cross-polarization gain across the sector's HPBW.

KP Performance Inc., P.O. Box 16759, Irvine, CA 92623
Phone: (855) 276-5772 or (780) 702-7577
info@kpperformance.com