

Product Description

This antenna is an ideal choice for complex sites with the TD-LTE band.

Features/Benefits

- Effective polarization diversity ensured by high cross polar discrimination
- Broadband design
- Wind load thrust highly reduced



Technical Specifications

Electrical Specifications

Frequency Range, MHz	1880-1920(F)	2010-2025(A)	2496-2690(D)
Polarization		Dual Pol +/-45°	
Electrical down tilt X, degrees		6	
VSWR		< 1.5:1	
<i>Calibration and Electrical Parameter</i>			
Transmission from antenna ports to cal. port, dB		-26±2	
Amplitude diff. between antenna port and cal. port, dB		<0.7	
Phase diff. between antenna port and cal. port, degrees		<5	
Same polarization ISO, dB		>28	
Different polarization ISO, dB		>30	
<i>Unit Beam</i>			
Horizontal Beamwidth, degrees	100 ±15	90 ±15	65 ±15
Gain, dBi	≥14	≥15	≥16.5
Cross-polar ratio on main axis, dB		≥18	
Cross-polar ratio @ ±60°, dB		≥10	
FFront-to-back ratio, dBi	≥23	≥23	≥25
<i>Broadcast Beam</i>			
Horizontal Beamwidth, degrees		65 ±5	
Gain, dBi	≥14	≥15	≥16
The reduce of power @ ±60° on H-beam, dB		10-14	
Vertical Beamwidth, degrees	≥7	≥6.5	≥5
Cross-polar ratio on main axis, dB		≥22	
Cross-polar ratio @ ±60°, dB		≥10	
Front-to-back ratio, dB		≥28	
Upper sidelobe suppression, dB		≤-16	
<i>Service Beam</i>			
Gain @ 0°, dB	≥20	≥21	≥22
Horizontal Beamwidth@ 0°, degrees	≤29	≤26	≤25
Side lobe suppression@ 0°on H-pattern, dB		≤-12	
Gain@±60°, dBi	≥17.5	≥17.5	≥19.5
Horizontal Beamwidth@ ±60°, degrees	≤32	≤32	≤23
Side lobe suppression @ 60°on H-pattern, dB	≤-5	≤-5	≤-4
Cross-polar ratio on main axis, dB		≥22	
Front-to-back ratio @ 0°, dB		≥28	

Mechanical Specifications

Dimensions-HxWxD, mm	1400 x 320 x 100
Connector Type	(9) N-Female
Impedance, Ohms	50
Maximum Power Input, W	50
Lightning Protection	Direct Ground
Weight w/o Mtg Hardware, kg	17.5
Survival Wind Speed, km/h	200
Rated Wind Speed, km/h	160
Max Wind Loading Area, m²	0.4
Radome Material	UPVC
Radome Color	Light Grey RAL7035
Mounting Hardware Material	Diecasted Galvanized Steel
Packing Dimensions, HxWxD, mm	1510 x 420 x 200