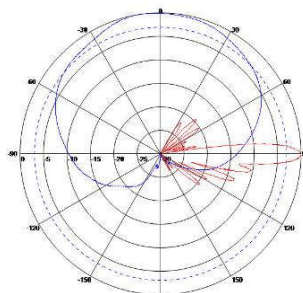


TDD Dual Polarized Smart Antenna Specification Sheet

3300-3600/3600-4200 100/90° 15dBi Fixed Tilt

Electrical specifications		W35SM15T0	
		3300-3600	3600-4200
Frequency Range (MHz)		3300-3600	3600-4200
Polarization		±45°	
Electrical Downtilt (°)		N/A	
Down-tilt Precision (°)		±1	
V.S.W.R.		≤1.5	
Isolation between Co-polarization Ports (dB)		≥20	
Isolation between Cross-polarization Ports (dB)		≥25	
Transmission from Any Column's Port to Calibration Port (dB)		-26±2	
Max.Altitude Difference between Calibration Port and Each Radiation Port (dB)		≤0.7	
Max.Phase Difference between Calibration Port and Each Radiation Port (°)		≤5	
Single Column	Horizontal -3dB Beamwidth (°)	100±15	90±15
	Gain(dBi)	≥13.5	≥14.5
	Cross Polar Ratio (dB)	≥15, (±60°≥10)	
	Front-to-back Ratio(dB)	≥23	
Broadcasting Pattern	Horizontal Beamwidth(°)	65±5	
	Vertical Beamwidth(°)	≥7	≥6.5
	Gain(dBi)	≥13.5	≥14.5
	Edge level at ±60°(dB)	12±3	
	Cross Polar Ratio (dB)	≥22, (±60°≥10)	
	Front-to-back Ratio(dB)	≥28	
	First Upper Side Lobe Suppression (dB)	≤-15	
First zero level(dB)	≥-18		
Traffic Beam Pattern	Gain for Operation Pattern at 0° Direction (dBi)	≥19.5	≥20.5
	Horizontal Beamwidth for Operation Pattern at 0° Direction (°)	≤29	≤26
	Horizontal Minor Electric Level for Operation Pattern at 0° Direction (dB)	≤-12	
	±60° Direction Gain(dBi)	≥17	
	Horizontal Beamwidth for Operation Pattern at ±60° Direction (°)	≤32	
	Horizontal Minor Electric Level for Operation Pattern at ±60° Direction (dB)	≤-5	
	Cross Polar Ratio for Operation Pattern at 0° Direction (Main-direction)	≥22	
	Front-to-back Ratio for Operation Pattern at 0° Direction (dB)	≥28	

Pattern(Single Column) H Plane(Blue) E Plane(Red)



Multi-band Panel (MHz)	3300-3600	3600-4200
Dual Polarization	X	
Half-power Beam Width	65°	
Fixed Electrical Downtilt	0°	

Mechanical specifications	
Connector	(8+1)×N Female
Connector position	Bottom
Height/width/depth (mm)	950×280×85
Packing size (mm)	1100×400×150
Radome material	UPVC
Radome color	Gray
Mechanical tilt (°)	-5~10
Operating temperature (°C)	-40~60
Rated wind velocity (m/s)	60
Mast Diameter(mm)	50~115
Ports Sketch	

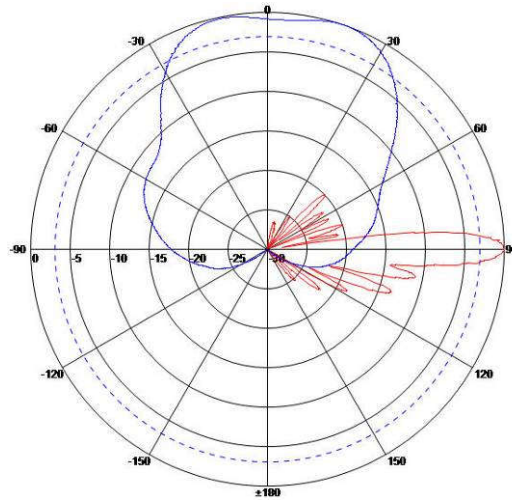


Antenna Weight						
	Frequency (MHz)	Port	1/5	2/6	3/7	4/8
30° Broadcasting Pattern	3300-3600	Altitude	1	1	1	1
		Phase (°)	0	0	0	0
	3600-4200	Altitude	1	1	1	1
		Phase (°)	0	0	0	0
65° Broadcasting Pattern	3300-3600	Altitude	1	1	1	1
		Phase (°)	0	140	80	-60
	3600-4200	Altitude	1	1	1	1
		Phase (°)	0	140	80	-60
90° Broadcasting	3300-3600	Altitude	0.3	0.3	1	0.3
		Phase (°)	-180	0	0	0

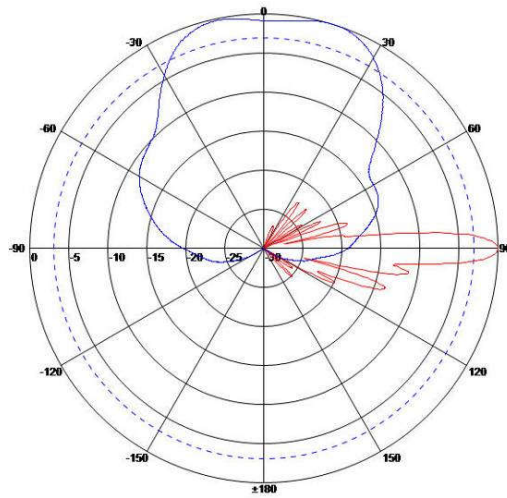
Multi-band Panel (MHz)	3300-3600	3600-4200
Dual Polarization	X	
Half-power Beam Width	65°	
Fixed Electrical Downtilt	0°	

Pattern	3600-4200	Altitude	0.3	0.3	1	0.3
		Phase (°)	-180	0	0	0

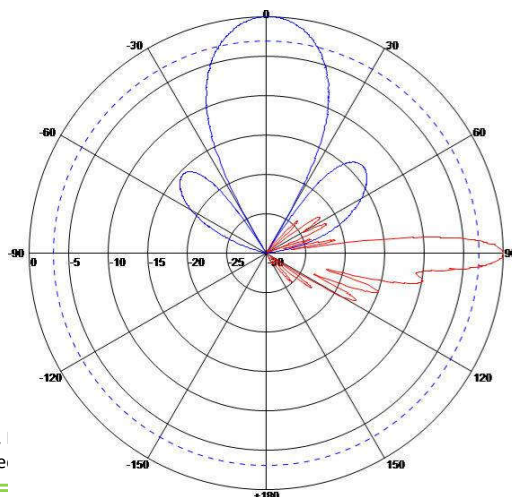
Pattern (3300-3600MHz 65° Broadcasting Pattern) H Plane(Blue) E Plane(Red)



Pattern (3600-4200MHz 65° Broadcasting Pattern) H Plane(Blue) E Plane(Red)

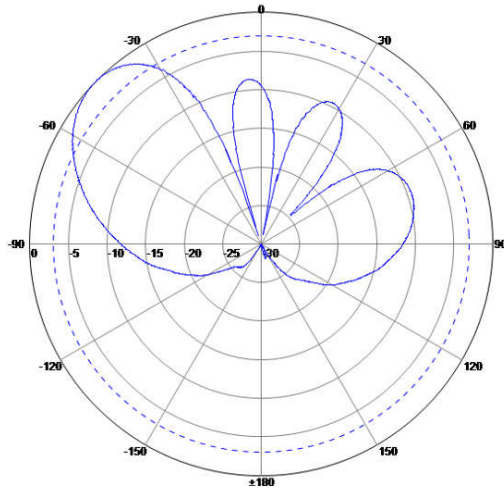


Pattern (0° Traffic Beam Pattern) H Plane(Blue) E Plane(Red)



Multi-band Panel (MHz)	3300-3600	3600-4200
Dual Polarization	X	
Half-power Beam Width	65°	
Fixed Electrical Downtilt	0°	

Pattern (60° Traffic Beam Pattern) H Plane



Installation Sketch

