

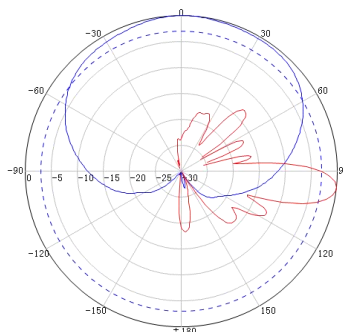


Multi-band Panel	1447-1467
Dual Polarization	X
Half-power Beam Width	105°

Dual Polarized Smart Antenna  
1447-1467MHz 105°12dBi 6°Tilt

Electrical specifications		KDA4-1450D12BT6
Frequency range (MHz)		1447-1467
Polarization		±45°
Electrical Downtilt (°)		6
Down-tilt Precision(°)		±1
V.S.W.R.		≤1.5
Isolation between Co-polarization Ports(dB)		≥28
Isolation between Cross-polarization Ports(dB)		≥28
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 (°)	105 ± 15
	Gain(dBi)	≥13
	Cross Polar Ratio (dB)	≥18, (±60°≥10)
	Front-to-back Ratio(dB)	≥22
Broadcasting Pattern	Horizontal Beamwidth(°)	65±5
	Vertical Beamwidth(°)	≥12
	Gain(dBi)	≥14
	Edge level at ±60°(dB)	12±2
	Cross Polar Ratio (dB)	≥22, (±60°≥10)
	Front-to-back Ratio(dB)	≥28
	First Upper Side Lobe Suppression (dB)	≤-16
Traffic Beam Pattern	First zero level(dB)	≥-18
	Gain for Operation Pattern at 0° Direction (dBi)	≥18
	Horizontal Beamwidth for Operation Pattern at 0° Direction (°)	≤29
	Horizontal Minor Electric Level for Operation Pattern at 0° Direction (dB)	≤-12
	±60° Direction Gain(dBi)	≥16.5
	Horizontal Beamwidth for Operation Pattern at ±60° Direction (°)	≤32
	Horizontal Minor Electric Level for Operation Pattern at ±60° Direction (dB)	≤-5
	Cross Polar Radio 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)**



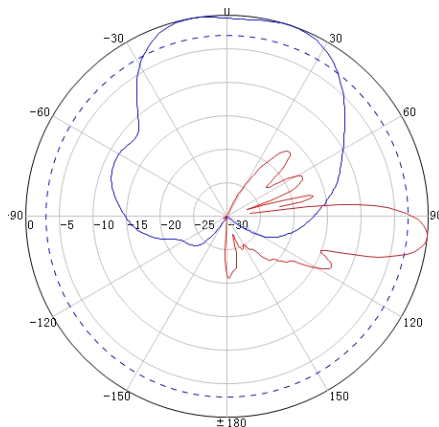


Mechanical specifications	
Connector	(8+1)×N Female
Connector position	Bottom
Height/width/depth (mm)	970×402×135
Weight (kg) (without bracket)	11.4
Radome material	UPVC
Radome color	Gray
Mechanical tilt (°)	0~15
Operating temperature (°C)	-40~60
Rated wind velocity (m/s)	60
Ports Sketch	



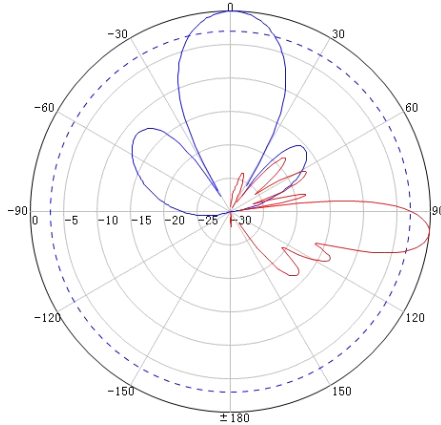
Antenna Weight						
	Frequency (MHz)	Port	1/5	2/6	3/7	4/8
0° Traffic Beam Pattern	1447-1467	Altitude(li)	1	1	1	1
		Phase (°)	0	0	0	0
65° Broadcasting Pattern		Altitude(li)	0.3	1	1	0.3
		Phase (°)	-18	-6	0	-168
60° Traffic Beam Pattern		Altitude(li)	1	1	1	1
		Phase (°)	0	-110	-220	-330

**Pattern (65° Broadcasting Pattern)**

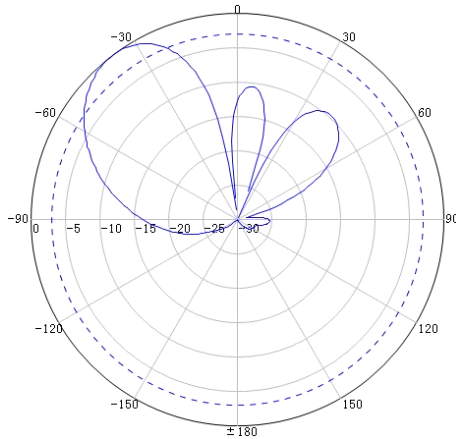




**Pattern (0°Traffic Beam Pattern)**



**Pattern (60° Traffic Beam Pattern) H Plane**



**Installation Sketch**

