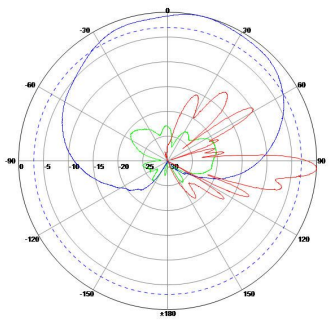
Dual Polarized Smart Antenna

1447-1467MHz 105°15dBi 3°Tilt

Electrical specifications		KDA4-1450D15BT3
Frequency range (MHz)		1447-1467
Polarization		±45°
Electrical Downtilt (°)		3
Down-tilt Precision(°)		±1
V.S.W.R.		≤1.5
Isolation between Co-polarization Ports(dB)		≥25
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)	≥14.5
	Cross Polar Radio (dB)	≥18，(±60°≥10)
	Front-to-back Ratio(dB)	≥25
Broadcasting Pattern	Horizontal Beamwidth(°)	65±5
	Vertical Beamwidth(°)	≥7
	Gain(dBi)	≥15.5
	Edge level at ±60°(dB)	12±2
	Cross Polar Radio (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
	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)	≥18.5
	Horizontal Beamwidth for Operation Pattern at ±60° Direction (°)	≤34
	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)



Kenbotong reserves the right to change specifications without prior notice.

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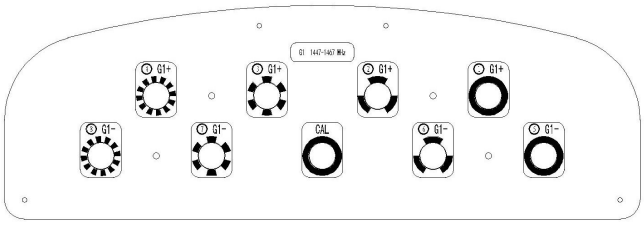
Mechanical specifications	
Connector	(8+1)×N Female
Connector position	Bottom
Height/width/depth (mm)	1610×402×135
Weight (kg) (without bracket)	16
Radome material	UPVC
Radome color	Gray
Mechanical tilt (°)	0～15
Operating temperature (℃)	-40～60
Rated wind velocity (m/s)	60

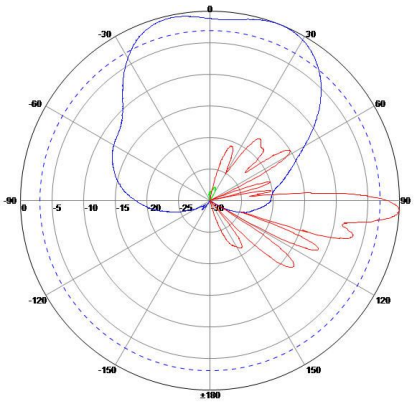
Ports Sketch



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）



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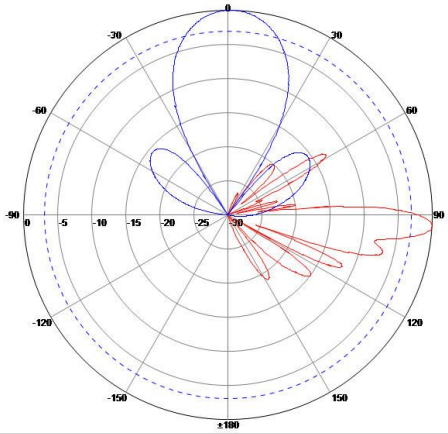
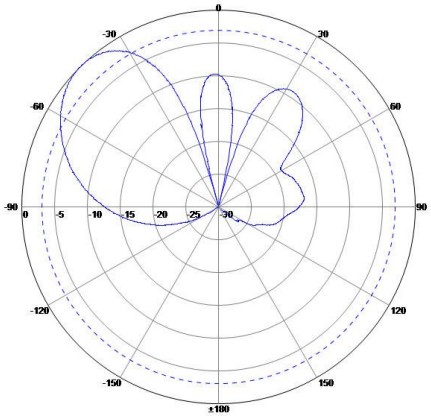
Multi-band Panel	1447-1467
Dual Polarization	X
Half-power Beam Width	105°

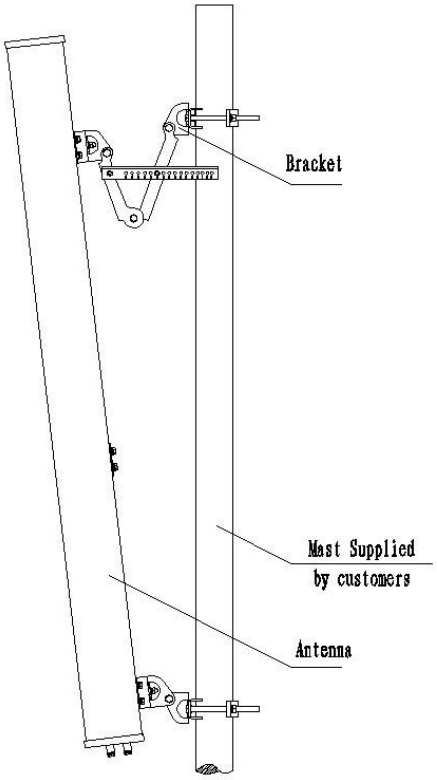
Pattern（0°Traffic Beam Pattern）



Pattern（60° Traffic Beam Pattern）H Plane



Installation Sketch



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