

# Outdoor Directional Dual-band Antenna

## SLO4-02065LMNJ

- XX Pol, 65°Horizontal Beamwidth
- 698-960/1710-2690MHz
- 11.8/15.0dBi, FET: 0/0

### Electrical Specifications

Frequency Range (MHz)	<b>R1 698-960</b>			
	698-824	790-894	880-960	
Polarization	±45°			
Gain (dBi)	11.2	11.5	11.8	
Horizontal Beamwidth (°)	74	74	73	
Vertical Beamwidth (°)	28.8	26.4	24.1	
Fixed Electrical Downtilt (°)	0			
Front-To-Back Ratio, 180°±30° (dB)	≥25(typ.)			
Cross-polar Discrimination@0° (dB)	≥17			
Maximum Power per Port (W)	500			
Frequency Range (MHz)	<b>Y1 1710-2690</b>			
	1710-1880	1850-1990	1920-2170	2490-2690
Polarization	±45°			
Gain (dBi)	13.6	13.9	14.5	15.0
Horizontal Beamwidth (°)	66	63	61	65
Vertical Beamwidth (°)	13.9	13.2	12.3	9.8
Fixed Electrical Downtilt (°)	0			
1st Upper Sidelobe Suppression (dB)	≥14			
Front-To-Back Ratio, 180°±30° (dB)	≥25(typ.)			
Cross-polar Discrimination@0° (dB)	≥17			
Maximum Power per Port (W)	250			
VSWR	≤1.5:1			
Isolation Intra-system (dB)	≥25			
Isolation Inter-system (dB)	≥30			
IM3 (2x43 dBm Carrier) (dBc)	≤-150			
Impedance (Ω)	50			
Lightning Protection	Direct Ground			

### Mechanical Specifications

### Outline Drawing

Dimensions, HxWxD (mm) / (in)	650x320x145 / 25.6x12.6x5.7	
Shipping Dimensions, HxWxD(mm) / (in)	850x430x260 / 33.5x16.9x10.2	
Net Weight, Antenna (kg) / (lb)	8.8 / 19.4	
Net Weight, Mounting Kit (kg) / (lb)	2.0 / 4.4	
Shipping Weight (kg) / (lb)	13.0 / 28.7	
Connector Type	4 x 7/16 DIN-Female	
Connector Location	Bottom	
Radome Material and Color	Fiberglass, Light Grey	
Operational Temperature (°C)	-50 to +70	
Operational Humidity (%)	≤95	
Operational / Max Wind Speed (km/h)	150 / 200	
Wind Load* @150km/h Frontal / Lateral / Rearside (N)	192 / 53 / 240	

\*Wind Load refer to TIA-222-G standard

# Outdoor Directional Dual-band Antenna

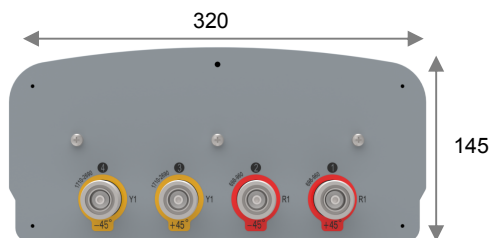
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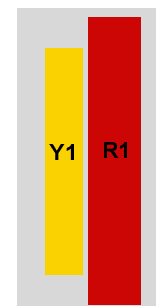
Electrical Specifications	BASTA Standard**			
Frequency Range (MHz)	R1 698-960			
	698-824	790-894	880-960	
Gain (dBi)	11.2±0.3	11.5±0.4	11.8±0.3	
Horizontal Beamwidth (°)	74±4	74±4	73±3	
Vertical Beamwidth (°)	28.8±1.7	26.4±1.9	24.1±1.3	
Front-To-Back Ratio, 180°±30° (dB)	≥25	≥26	≥25	
Cross-polar Discrimination@0° (dB)	≥23	≥21	≥20	
Cross-polar Discrimination over Sector (dB)	≥13	≥10	≥7	
Y1 1710-2690				
Frequency Range (MHz)	1710-1880	1850-1990	1920-2170	2490-2690
Gain (dBi)	13.6±0.5	13.9±0.2	14.5±0.5	15.0±0.4
Horizontal Beamwidth (°)	66±5	63±3	61±3	65±5
Vertical Beamwidth (°)	13.9±0.6	13.2±0.7	12.3±1.3	9.8±0.8
1st Upper Sidelobe Suppression (dB)	≥15	≥17	≥18	≥16
Upper Sidelobe Suppression, Peak to 20° (dB)	≥16	≥17	≥17	≥16
Front-To-Back Ratio, 180°±30° (dB)	≥24	≥24	≥25	≥25
Cross-polar Discrimination@0° (dB)	≥22	≥23	≥23	≥20
Cross-polar Discrimination over Sector (dB)	≥11	≥12	≥11	≥7

\*\*Values based on NGMN recommendations on Base Station Antenna Standards (BASTA).

### Connector Position



### Configuration Types



### Connector Labeling\*\*\*

Connect Code	Frequency range	Array
R1	698-960	r
Y1	1710-2690	l

\*\*\*R-Red, Y-Yellow, B-Blue, l-left array, r-right array, c-center array, t-top array, b-bottom array

### Accessories

Model	Quantity	Description
SJA-B-14E(20)	1	Mounting Kit, 0-20°tilt.