

Outdoor Directional Quad-band Antenna

SLO8-04065OMRJ3

- XXXX Pol, 65° Horizontal Beamwidth
- 694-960/1695-2690/1695-2690/1695-2690MHz
- 14.1/17.7/17.5/17.7dBi, E-Tilt: 2-16/2-12/2-12/2-12
- **Integrated RCU**

Electrical Specifications

Frequency Range (MHz)	R1 694-960				
	694-824		790-894		880-960
Polarization	±45°				
Gain (dBi)	13.5		13.9		14.1
Horizontal Beamwidth (°)	68		66		65
Vertical Beamwidth (°)	15.0		14.6		14.4
Electrical Downtilt (°)	2-16				
1st Upper Sidelobe Suppression (dB)	≥16(2°), ≥15(9°), ≥14(16°)				
Front-To-Back Ratio, 180°±30° (dB)	≥25(typ.)				
Cross-polar Discrimination@0°(dB)	≥17(typ.)				
Maximum Power per Port (W)	500				
Y1 1695-2690, Y3 1695-2690					
Frequency Range (MHz)	1695-1880	1850-1990	1920-2170	2300-2500	2490-2690
	±45°				
Polarization	±45°				
Gain (dBi)	16.7	16.9	17.3	17.4	17.7
Horizontal Beamwidth (°)	68	66	66	66	63
Vertical Beamwidth (°)	7.3	6.6	6.3	5.3	4.9
Electrical Downtilt (°)	2-12 / 2-12				
1st Upper Sidelobe Suppression (dB)	≥15(2°), ≥15(7°), ≥14(12°)				
Front-To-Back Ratio, 180°±30° (dB)	≥25(typ.)				
Cross-polar Discrimination@0°(dB)	≥17				
Maximum Power per Port (W)	250				
Y2 1695-2690					
Frequency Range (MHz)	1695-1880	1850-1990	1920-2170	2300-2500	2490-2690
	±45°				
Polarization	±45°				
Gain (dBi)	16.7	17.2	17.3	17.4	17.5
Horizontal Beamwidth (°)	66	65	64	64	60
Vertical Beamwidth (°)	6.6	6.2	5.7	4.5	4.5
Electrical Downtilt (°)	2-12				
1st Upper Sidelobe Suppression (dB)	≥15(2°), ≥15(7°), ≥14(12°)				
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)	≥28				
Isolation Inter-system (dB)	≥30				
IM3 (2x43 dBm Carrier) (dBc)	≤-150				
Impedance (Ω)	50				
Lightning Protection	Direct Ground				

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Mechanical Specifications		Outline Drawing
Dimensions, HxWxD (mm) / (in)	1500x355x192 / 59.1x14.0x7.6	
Shipping Dimensions, HxWxD(mm) / (in)	1785x440x310 / 70.3x17.3x12.2	
Net Weight, Antenna (kg) / (lb)	24.5 / 54.0	
Net Weight, Mounting Kit (kg) / (lb)	5.9 / 13.0	
Shipping Weight (kg) / (lb)	35.0 / 77.2	
Connector Type	8 x 7/16 DIN Female	
Connector Location	Bottom	
Radome Material and Color	Fiberglass, Light Grey	
Operational Temperature (°C)	-40 to +60	
Operational Humidity (%)	≤95	
Operational / Max Wind Speed (km/h)	150 / 200	
Wind Load* @150km/h Frontal / Lateral / Rearside (N)	330 / 115 / 306	

RET Specifications	
RET type	Integrated motor, replaceable
Protocol to CCU/TMA	3GPP / AISG 2.0
Input Voltage Range(V)	+10 to +30 DC
Power Consumption(W)	≤2(stand by); ≤13(operating)
Connectors to CCU	2x8 pin connector, Male, conform to AISG 2.0
Connectors to RCU	2x8 pin connector, Female, conform to AISG 2.0
Dimensions, HxWxD (mm) / (in) (excluding connector)	171x165x34 / 6.7x6.5x1.3
Weight (kg) / (lb)	0.8 / 1.8

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Electrical Specifications		BASTA Standard**				
Frequency Range (MHz)		R1 694-960				
		694-824	790-894	880-960		
Gain (dBi)	Over All Tilts	13.4±0.4	13.8±0.4	14.1±0.4		
	Min Tilt	13.5	13.9	14.1		
	Mid Tilt	13.6	14.0	14.2		
	Max Tilt	13.2	13.7	14.0		
Horizontal Beamwidth (°)		68±2	66±3	65±3		
Vertical Beamwidth (°)		15.0±1.0	14.6±1.4	14.4±1.2		
Electrical Downtilt Deviation (°)		≤1.0	≤1.0	≤1.0		
1st Upper Sidelobe Suppression (dB)		≥16	≥17	≥16		
Upper Sidelobe Suppression, Peak to 20° (dB)		≥19	≥19	≥16		
Front-To-Back Ratio, 180°±30° (dB)		≥25	≥25	≥25		
Cross-polar Discrimination@0° (dB)		≥23	≥22	≥21		
Cross-polar Discrimination over Sector (dB)		≥8	≥8	≥7		
Frequency Range (MHz)		Y1 1695-2690, Y3 1695-2690				
		1695-1880	1850-1990	1920-2170	2300-2500	2490-2690
Gain (dBi)	Over All Tilts	16.3±0.5	16.7±0.4	17.2±0.6	17.2±0.5	17.4±0.6
	Min Tilt	16.7	16.9	17.3	17.4	17.7
	Mid Tilt	16.5	16.8	17.4	17.4	17.5
	Max Tilt	16.1	16.5	16.9	16.8	16.8
Horizontal Beamwidth (°)		68±3	66±5	66±5	66±3	63±4
Vertical Beamwidth (°)		7.3±0.8	6.6±0.4	6.3±0.6	5.3±0.7	4.9±0.5
Electrical Downtilt Deviation (°)		≤1.0	≤1.0	≤1.0	≤1.0	≤1.0
1st Upper Sidelobe Suppression (dB)		≥16	≥16	≥16	≥17	≥15
Upper Sidelobe Suppression, Peak to 20° (dB)		≥16	≥15	≥15	≥15	≥14
Front-To-Back Ratio, 180°±30° (dB)		≥24	≥26	≥26	≥23	≥24
Cross-polar Discrimination@0° (dB)		≥17	≥18	≥17	≥16	≥18
Cross-polar Discrimination over Sector (dB)		≥10	≥10	≥11	≥8	≥8
Frequency Range (MHz)		Y2 1695-2690				
		1695-1880	1850-1990	1920-2170	2300-2500	2490-2690
Gain (dBi)	Over All Tilts	16.4±0.4	16.8±0.5	16.9±0.5	17.0±0.5	17.3±0.4
	Min Tilt	16.7	17.2	17.3	17.4	17.5
	Mid Tilt	16.4	16.7	16.9	17.0	17.4
	Max Tilt	16.2	16.4	16.5	16.7	17.0
Horizontal Beamwidth (°)		66±3	65±3	64±3	64±5	60±3
Vertical Beamwidth (°)		6.6±0.5	6.2±0.4	5.7±0.5	4.5±0.3	4.5±0.3
Electrical Downtilt Deviation(°)		≤1.0	≤0.9	≤1.0	≤1.0	≤1.0
1st Upper Sidelobe Suppression (dB)		≥18	≥16	≥16	≥17	≥16
Upper Sidelobe Suppression, Peak to 20° (dB)		≥17	≥15	≥14	≥14	≥14
Front-To-Back Ratio, 180°±30° (dB)		≥30	≥29	≥29	≥27	≥28
Cross-polar Discrimination@0°(dB)		≥24	≥23	≥23	≥28	≥26
Cross-polar Discrimination over Sector(dB)		≥10	≥10	≥10	≥8	≥6

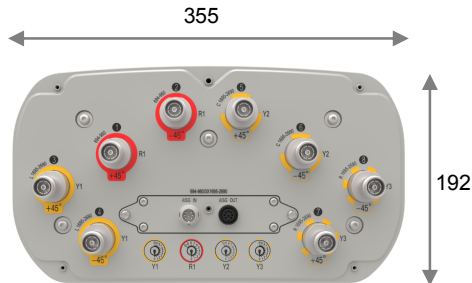
**Values based on NGMN recommendations on Base Station Antenna Standards (BASTA).

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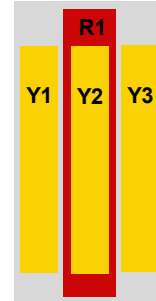
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Connector Position



4.3-10 Female Connector for Reference

Configuration Types



Connector Labeling***

Connect Code	Frequency range	Array
R1	694-960	c
Y1	1695-2690	l
Y2	1695-2690	c
Y3	1695-2690	r

***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
00-ZJ10(16)	1	Mounting Kit, 0-16°tilt.
PRCU-GT00	1	Integrated RET Controller