

Outdoor Directional Quad-band Antenna

SLO8-04065ONOGRJ2

- XXXX Pol, 65° Horizontal Beamwidth
- 698-862/880-960/1710-2690/1710-2690MHz
- 14.3/14.4/18.0/18.0dBi, E-Tilt: 2-16/2-16/2-12/2-12
- **Integrated RCU**

Electrical Specifications					
Frequency Range (MHz)	R1 698-862			R2 880-960	
	698-824		790-862	880-960	
Polarization	±45°				
Gain (dBi)	14.0		14.3	14.4	
Horizontal Beamwidth (°)	68		65	65	
Vertical Beamwidth (°)	14.9		13.9	12.6	
Electrical Downtilt (°)	2-16			2-16	
1st Upper Sidelobe Suppression (dB)	≥17(2°), ≥17(9°), ≥17(16°)			≥16(2°), ≥15(9°), ≥15(16°)	
Front-to-Back Ratio, 180°±30° (dB)	≥25(typ.)				
Cross-polar Discrimination@0° (dB)	≥18(typ.)				
Maximum Power per Port (W)	500				
Y1 1710-2690, Y2 1710-2690					
Frequency Range (MHz)	1710-1880	1850-1990	1920-2170	2300-2500	2490-2690
	±45°				
Polarization	±45°				
Gain (dBi)	16.9	17.4	17.6	17.7	18.0
Horizontal Beamwidth (°)	64	62	63	63	64
Vertical Beamwidth (°)	7.4	7.1	6.6	5.5	4.9
Electrical Downtilt (°)	2-12 / 2-12				
1st Upper Sidelobe Suppression (dB)	≥17(2°), ≥16(7°), ≥14(12°)				
Front-to-Back Ratio, 180°±30° (dB)	≥25(typ.)				
Cross-polar Discrimination@0° (dB)	≥20(typ.)				
Maximum Power per Port (W)	300				
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)	1500x380x138 / 59.1x15.0x5.4	
Shipping Dimensions, HxWxD (mm) / (in)	1815x490x270 / 71.5x19.3x10.6	
Net Weight, Antenna (kg) / (lb)	28.9 / 63.7	
Net Weight, Mounting Kit (kg) / (lb)	5.9 / 13.0	
Shipping Weight (kg) / (lb)	41.8 / 92.2	
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	

RET Specifications	
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	8 pin connector, Male, conform to AISG 2.0
Connectors to RCU	8 pin connector, Female, conform to AISG 2.0
Dimensions, HxWxD (mm) / (in) (excluding connector)	116x53x26 / 4.6x2.1x1.0
Weight, w/o Mounting Kit (kg) / (lb)	0.2 / 0.4

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Electrical Specifications		BASTA Standard**				
		R1 698-862			R2 880-960	
Frequency Range (MHz)		698-824	790-862	880-960		
Gain (dBi)	Over All Tilts	13.9±0.4	14.1±0.4	14.0±0.6		
	Min Tilt	14.0	14.3	14.4		
	Mid Tilt	14.0	14.2	14.0		
	Max Tilt	13.8	13.7	13.5		
Horizontal Beamwidth (°)		68±3	65±2	65±4		
Vertical Beamwidth (°)		14.9±1.1	13.9±0.6	12.6±0.9		
Electrical Downtilt Deviation (°)		≤0.8	≤0.7	≤0.7		
1st Upper Sidelobe Suppression (dB)		≥17	≥17	≥16		
Upper Sidelobe Suppression, Peak to 20° (dB)		≥17	≥17	≥15		
Front-to-Back Ratio, 180°±30° (dB)		≥26	≥26	≥26		
Cross-polar Discrimination@0° (dB)		≥20	≥21	≥22		
Cross-polar Discrimination over Sector (dB)		≥10	≥10	≥11		
		Y1 1710-2690, Y2 1710-2690				
Frequency Range (MHz)		1710-1880	1850-1990	1920-2170	2300-2500	2490-2690
Gain (dBi)	Over All Tilts	16.8±0.5	17.3±0.4	17.5±0.5	17.6±0.5	17.9±0.6
	Min Tilt	16.9	17.4	17.6	17.7	18.0
	Mid Tilt	17.0	17.5	17.7	17.8	18.2
	Max Tilt	16.5	17.0	17.3	17.4	17.6
Horizontal Beamwidth (°)		64±6	62±3	63±3	63±5	64±6
Vertical Beamwidth (°)		7.4±0.4	7.1±0.4	6.6±0.7	5.5±0.7	4.9±0.5
Electrical Downtilt Deviation (°)		≤0.9	≤0.9	≤0.9	≤0.9	≤0.9
1st Upper Sidelobe Suppression (dB)		≥17	≥18	≥18	≥17	≥17
Upper Sidelobe Suppression, Peak to 20° (dB)		≥17	≥17	≥16	≥15	≥15
Front-to-Back Ratio, 180°±30° (dB)		≥25	≥25	≥25	≥25	≥25
Cross-polar Discrimination@0° (dB)		≥24	≥25	≥24	≥20	≥20
Cross-polar Discrimination over Sector (dB)		≥12	≥10	≥8	≥7	≥6

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

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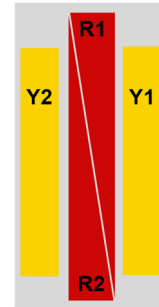
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Connector Position



Configuration Types



Connector Labeling***

Connect Code	Frequency range	Array
R1	698-862	c
R2	880-960	c
Y1	1710-2690	r
Y2	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
00-ZJ10(12)	1	Mounting Kit, 0-12°tilt.
PRCU-GT01	1	Integrated RET Controller