

Outdoor Directional Tri-band Antenna

SLO6-04065OMRJ2

- XXX Pol, 65°Horizontal Beamwidth
- 694-960/1710-2690/1710-2690MHz
- 14.7/18.0/18.0dBi, E-Tilt: 2-16/2-12/2-12
- **Integrated RCU**

Electrical Specifications					
Frequency Range (MHz)	R1 694-960				
	694-824	790-894		880-960	
Polarization	±45°				
Gain (dBi)	14.1	14.5		14.7	
Horizontal Beamwidth (°)	69	66		64	
Vertical Beamwidth (°)	14.3	12.7		11.6	
Electrical Downtilt (°)	2-16				
1st Upper Sidelobe Suppression (dB)	≥15(2°), ≥14(9°), ≥14(16°)				
Upper Sidelobe Suppression, Peak to 20° (dB)	≥14(2°), ≥13(9°), ≥12(16°)				
Front-to-Back Ratio, 180°±30° (dB)	≥25(typ.)				
Cross-polar Discrimination@0° (dB)	≥18(typ.)				
Maximum Power per Port (W)	500				
Frequency Range (MHz)	Y1 1710-2690, Y2 1710-2690				
	1710-1800	1850-1990	1920-2170	2300-2500	2490-2690
Polarization	±45°				
Gain (dBi)	16.6	17.2	17.4	17.7	18.0
Horizontal Beamwidth (°)	65	63	63	63	64
Vertical Beamwidth (°)	7.6	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°)				
Upper Sidelobe Suppression, Peak to 20° (dB)	≥15(2°), ≥15(7°), ≥14(12°)				
Front-to-Back Ratio, 180°±30° (dB)	≥25(typ.)				
Cross-polar Discrimination@0° (dB)	≥20(typ.)				
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)	1400x380x138 / 55.1x15.0x5.4	
Shipping Dimensions, HxWxD (mm) / (in)	1700x490x270 / 66.9x19.3x10.6	
Net Weight, Antenna (kg) / (lb)	20.6 / 45.4	
Net Weight, Mounting Kit (kg) / (lb)	5.9 / 13.0	
Shipping Weight (kg) / (lb)	32.8 / 72.3	
Connector Type	6 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)	636 / 117 / 758	

*Wind Load refer to TIA-222-G standard

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)	100x53x26 / 3.9x2.1x1.0
Weight, w/o Mounting Kit (kg) / (lb)	0.16 / 0.35

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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	13.9±0.4	14.2±0.4	14.2±0.6		
	Min Tilt	14.1	14.5	14.7		
	Mid Tilt	14.0	14.2	14.3		
	Max Tilt	13.8	13.9	13.7		
Horizontal Beamwidth (°)		69±4	66±2	64±5		
Vertical Beamwidth (°)		14.3±1.2	12.7±1.0	11.6±1.0		
Electrical Downtilt Deviation (°)		≤0.5	≤0.4	≤0.5		
1st Upper Sidelobe Suppression (dB)		≥15	≥15	≥14		
Upper Sidelobe Suppression, Peak to 20° (dB)		≥14	≥13	≥12		
Front-to-Back Ratio, 180°±30° (dB)		≥25	≥25	≥24		
Cross-polar Discrimination@0° (dB)		≥21	≥20	≥22		
Cross-polar Discrimination over Sector (dB)		≥9	≥8	≥6		
Frequency Range (MHz)		Y1 1710-2690, Y2 1710-2690				
		1710-1880	1850-1990	1920-2170	2300-2500	2490-2690
Gain (dBi)	Over All Tilts	16.6±0.5	17.2±0.3	17.4±0.4	17.6±0.4	17.9±0.6
	Min Tilt	16.6	17.2	17.4	17.7	18.0
	Mid Tilt	16.7	17.2	17.5	17.8	18.1
	Max Tilt	16.5	17.0	17.3	17.3	17.6
Horizontal Beamwidth (°)		65±6	63±3	63±3	63±4	64±6
Vertical Beamwidth (°)		7.6±0.5	7.1±0.4	6.6±0.7	5.5±0.6	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	≥18	≥17	≥16	≥15
Front-to-Back Ratio, 180°±30° (dB)		≥25	≥25	≥25	≥25	≥25
Cross-polar Discrimination@0° (dB)		≥24	≥24	≥23	≥22	≥20
Cross-polar Discrimination over Sector (dB)		≥12	≥10	≥8	≥7	≥6

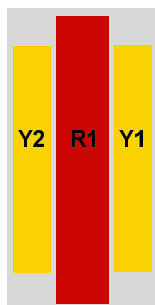
**Values based on NGMN recommendations on Base Station Antenna Standards (BASTA).

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Configuration Types



Connector Labeling***

Connect Code	Frequency range	Array
R1	694-960	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(18)	1	Mounting Kit, 0-18°tilt.
PRCU-GT00	1	Integrated RET Controller