

SL-2L4M-4P609015-8P1727D18-E12-V01

2*690-960/4*1710-2690MHz

65/65/33/33/33/33deg 15/15/18/18/18/18dBi XXXXXX 12-port antenna

Integrated and replaceable RCU, each band individually adjustable

12x4.3-10(F) connectors @bottom

Antenna Specifications

Electrical Properties					
Frequency Range(MHz)		R1/R2:690-960			
		690-803	790-862	824-894	880-960
Gain (dBi)	at middle tilt	14.2	14.5	14.8	15.2
	over all tilt	14.0±0.5	14.3±0.5	14.6±0.5	15.0±0.5
Polarization		+45°/-45°			
Horizontal -3dB Beamwidth(°)		70±6	67±5	66±5	62±5
Vertical -3dB Beamwidth(°)		11.2±1.2	10.2±0.9	9.0±0.9	8.2±0.8
Electrical Downtilt(°)		2-14, continuously adjustable			
First Upper Side Lobe Suppression (Typ.)(dB)		≥15.0	≥15.0	≥15.0	≥15.0
Cross Polar Ratio (0°)(dB)		≥15.0	≥15.0	≥15.0	≥15.0
Cross Polar Ratio (±60°)(dB)		≥25.0	≥25.0	≥25.0	≥25.0
Front to Back Ratio, ±30°(dB)		<1.5			
VSWR		≥25			
Cross-polar Isolation (dB)		≥25			
Inter-band Isolation (dB)		≤-153			
PIM3 (2×43 dBm carrier)(dBc)		50			
Impedance(Ω)		DC Ground			
Grounding		350 (at 50℃ ambient temperature)			
Max. Average Input Power per Port(W)		R1/R2:690-960			

Electrical Properties					
Frequency Range(MHz)		Y1&Y3/Y2&Y4 1710-2690			
		1710-1920	1920-2170	2300-2490	2490-2690
Gain (dBi)	at middle tilt	16.8(Y1/3) 16.6(Y2/4)	17.3(Y1/3) 17.1(Y2/4)	17.8(Y1/3) 17.6(Y2/4)	17.9(Y1/3) 17.7(Y2/4)
	over all tilt	16.6±0.6(Y1/3) 16.4±0.6(Y2/4)	17.1±0.5(Y1/3) 16.9±0.5(Y2/4)	17.6±0.5(Y1/3) 17.4±0.5(Y2/4)	17.7±0.5(Y1/3) 17.5±0.5(Y2/4)
Polarization		+45°/-45°			

Horizontal -3dB Beamwidth(°)	36±5	33±5	30±4	27±4
Vertical -3dB Beamwidth(°)	10.0±1.0	9.5.0±0.8	8.3±0.7	7.4±0.6
Electrical Downtilt(°)	2-12, continuously adjustable			
First Upper Side Lobe Suppression (Typ.)(dB)	≥15.0	≥15.0	≥15.0	≥15.0
Cross Polar Ratio (0°)(dB)	≥15.0	≥15.0	≥15.0	≥15.0
Beam Center Direction-Horizontal(°)	±35.0	±33.0	±30.0	±28.0
Horizontal Side Lobe Suppression (Typ.)(dB)	≥15.0	≥15.0	≥15.0	≥15.0
Front to Back Ratio, ±30°(dB)	≥28.0	≥28.0	≥28.0	≥28.0
VSWR	<1.5			
Cross Polar (Intra band) Isolation (dB)	≥25			
Interbeam Isolation (dB)	≥16			
PIM3 (2×43 dBm carrier)(dBc)	≤-153			
Impedance(Ω)	50			
Grounding	DC Ground			
Max. Average Input Power per Port(W)	250 (at 50℃ ambient temperature)			

Values based on NGMN-N-P-BASTA V11.1

A member of



Certifications



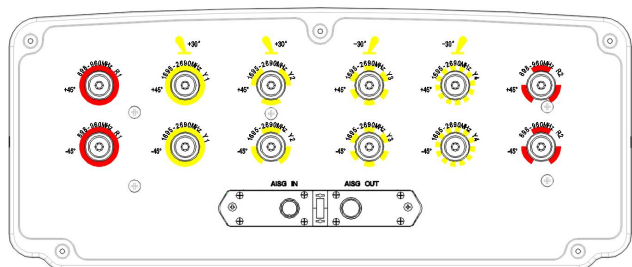
Mechanical Properties	
Radome Material	Fiberglass
Radome Colour	Light Grey
Connector Type	4.3-10(F)×12
Antenna Dimension (H×W×D)(mm)	2100×499×205
Packing Size (H×W×D)(mm)	2485×554×240
Antenna Net Weight(kg)	42
Installation Kit Weight(kg)	5.6 (2 units)
Mechanical Downtilt(°)	0-10
Mast Diameter Supported(mm)	50-114
Pole Length(mm)	>2000

Operating Temperature(°C)	-40-+65
Wind Load (at 150 km/h)	1478/607/1478N(Frontal/Lateral/Rear side)
Maximum Wind Speed (km/h)	200

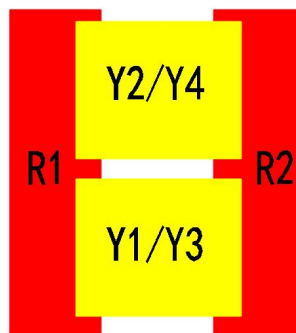
RET Properties

Power Supply	10-30V dc
Power Consumption	≤2W (Idle), ≤10W (in Motion)
Hardware Interface	RS 485A/B(pin5, pin3); power supply(pin1, pin6); DC return(pin 7); according to AISG 2.0/3GPP
Logical Interface	HEX Coded Commands Based on HDLC Protocol
Protocol Supported	AISG 2.0/3GPP
Adjustment Time (Full Range)	<90s(typical, depending on model)
Adjustment Cycles	>20000
Torque Max.	≥160 mN.m
Lightning Protection Rate	IEC 61000-4-5 Current Pulse Profile, 8/20 μs Min. @8kA±5 Repetitions
Connectors	2 Circle Connector According to IEC 60130-9 and AISG. Daisy Chain In: Male, Daisy Chain Out: Female

Antenna Ports

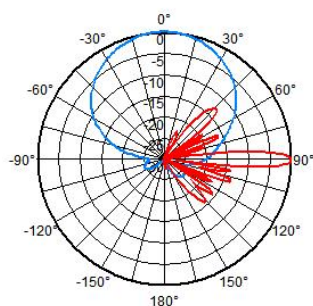


Array Layout



Reference Radiation Patterns

690-960MHz(65 deg)



1710-2690MHz(twin-beam)

