

SL-2L4M-4P609016.5-8P172718-E12-V01

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

65/65/65/65/65/65deg 16.5/16.5/18/18/18/18dBi 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	820-894	880-960
Gain (dBi)	at middle tilt	15.3	15.6	15.8	16.1
	over all tilt	15.1±0.6	15.4±0.5	15.6±0.5	15.9±0.6
Polarization		+45°/-45°			
Horizontal -3dB Beamwidth(°)		70±5	67±5	66±5	62±5
Vertical -3dB Beamwidth(°)		8.8±1.0	8.0±0.8	7.6±0.7	7.2±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
Front to Back Ratio, ±30°(dB)		≥25.0	≥25.0	≥25.0	≥25.0
VSWR		<1.5			
Cross-polar Isolation (dB)		≥25			
Inter-band Isolation (dB)		≥25			
PIM3 (2×43 dBm carrier)(dBc)		≤-153			
Impedance(Ω)		50			
Grounding		DC Ground			
Max. Average Input Power per Port(W)		350 (at 50℃ ambient temperature)			

Frequency Range(MHz)		Y1/Y2/Y3/Y4:1710-2690			
		1710-1920	1920-2200	2200-2490	2490-2690
Gain (dBi)	at middle tilt	17.0	17.3	17.5	17.5
	over all tilt	16.8±0.6	17.1±0.5	17.3±0.5	17.3±0.7
Polarization		+45°/-45°			
Horizontal -3dB Beamwidth(°)		69±6	66±6	61±6	58±6
Vertical -3dB Beamwidth(°)		7.3±0.7	6.5±0.6	5.5±0.5	5.0±0.5
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
Front to Back Ratio, ±30°(dB)	≥25.0	≥25.0	≥25.0	≥25.0
VSWR	<1.5			
Cross-polar Isolation (dB)	≥25			
Inter-band Isolation (dB)	≥25			
PIM3 (2×43 dBm carrier)(dBc)	≤-153			
Impedance(Ω)	50			
Grounding	DC Ground			
Max Input Power per Port (W)	250 (at 50℃ ambient temperature)			

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

A member of



Certifications

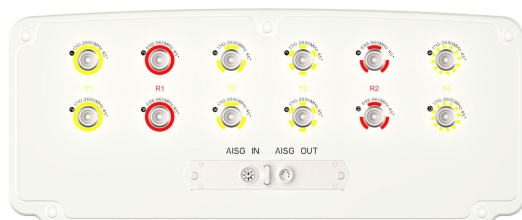


Mechanical Properties	
Radome Material	Fiberglass
Radome Colour	Light Grey
Connector Type	4.3-10(F)×12
Antenna Dimension (H×W×D)(mm)	2500×499×205
Packing Size (H×W×D)(mm)	2815X554X240
Antenna Net Weight (approx.) (kg)	40.5
Installation Kit Weight(kg)	5.6 (2 units)
Mechanical Downtilt(°)	0-8
Mast Diameter Supported(mm)	50-114
Pole Length(mm)	>2500
Operating Temperature(℃)	-40-+65
Wind Load (at 150 km/h)	1760/723/1760 N (Frontal/Lateral/Rear side)
Maximum Wind Speed (km/h)	200

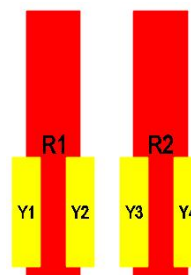
RET Properties	
Power Supply	10-30V dc

Power Consumption	$\leq 2W$ (Idle), $\leq 10W$ (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 μ s Min. @8kA $\pm$ 5 Repetitions
Connectors	2 Circle Connector According to IEC 60130-9 and AISG. Daisy Chain In: Male, Daisy Chain Out: Female

Antenna Ports

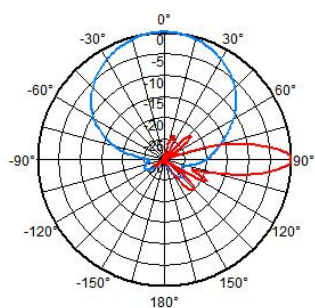


Array Layout



Reference Radiation Patterns

690-960MHz(65 deg)



1710-2690MHz(65 deg)

