SL-2L4M-4P609016-8P172717-E12-V10

2*690-960/4*1695-2690MHz

15.5/15.5/16.5/16.5/16.5/16.5dBi 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	14.7	15.0	15.2	15.5
	over all tilt	14.5±0.6	14.8±0.5	14.0±0.5	15.3±0.6
Polarization		+45°/-45°			
Horizontal -3dB Beamwidth(°)		68±5	66±4	65±4	61±4
Vertical -3dB Beamwidth(°)		11.5±1.2	10.5±0.9	9.2±0.9	8.5±0.8
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)		⩾17.0	⩾17.0	⩾17.0	⩾16.0
Cross Polar Ratio (±60°)(dB)		⩾8.0	⩾7.0	⩾7.0	⩾6.0
Front to Back Ratio, ±30°(dB)		⩾23.0	⩾24.0	⩾24.0	⩾23.0
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/Y3Y4:1695-2690			
		1695-1920	1920-2200	2200-2490	2490-2690
Gain (dBi)	at middle tilt	15.0（Y1/Y3） 14.8（Y2/Y4）	15.5（Y1/Y3） 15.3（Y2/Y4）	16.0（Y1/Y3） 15.8（Y2/Y4）	16.5（Y1/Y3） 16.3（Y2/Y4）
	over all tilt	14.8±0.7（Y1/Y3） 14.6±0.7（Y2/Y4）	15.3±0.5（Y1/Y3） 15.1±0.5（Y2/Y4）	15.8±0.5（Y1/Y3） 15.6±0.5（Y2/Y4）	16.3±0.7（Y1/Y3） 16.1±0.7（Y2/Y4）
Polarization		+45°/-45°			
Horizontal -3dB Beamwidth(°)		69±6	66±6	61±6	58±6
Vertical -3dB Beamwidth(°)		9.0±0.8	8.5±0.7	7.8±0.6	6.0±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
Cross Polar Ratio (±60°)(dB)	⩾8.0	⩾7.0	⩾6.0	⩾6.0
Front to Back Ratio, ±30°(dB)	＞23	＞24	＞24	＞23
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)	200 (at 50℃ ambient temperature)			

Values based on NGMN-N-P-BASTA V12.0

A member of

Certifications

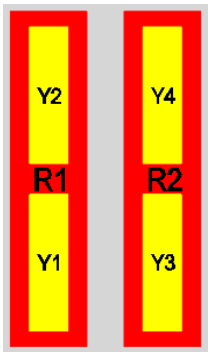
Mechanical Properties	
Radome Material	Fiberglass
Radome Colour	Light Grey
Connector Type	4.3-10(F)×12
Antenna Dimension (H×W×D)(mm)	2100×448×188
Packing Size (H×W×D)(mm)	2285X483X223
Antenna Net Weight (approx.) (kg)	36
Installation Kit Weight(kg)	5.6 (2 units)
Mechanical Downtilt(°)	0-10
Mast Diameter Supported(mm)	50-114
Pole Length(mm)	>2000
Operating Temperature(℃)	-40-+65
Wind Load (at 150 km/h)	1706/716/1706 N (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

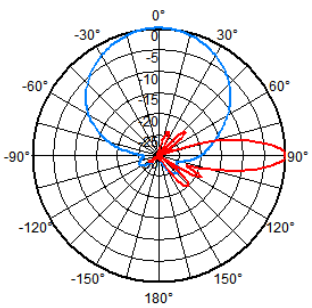
Antenna Ports

Array Layout



Reference Radiation Patterns

690-960MHz(65 deg)



1695-2690MHz(65 deg)