SL-2L8M-4P609017-16P172718-E12-V10

2*690-960/8*1695-2690MHz
65/65/65/65/65/65/65/65/65/65deg 16.5/16.5/18/18/18/18/18/18/18/18dBi XXXXXXXXXX 20-port antenna
Integrated and replaceable RCU, each band individually adjustable
20x4.3-10(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	15.5	15.8	16.0	16.3
	over all tilt	15.3±0.6	15.6±0.5	15.8±0.5	16.1±0.6
Polarization		+45°/-45°			
Horizontal -3dB Beamwidth(°)		70±5	67±5	66±5	62±5
Vertical -3dB Beamwidth(°)		8.5±0.7	7.8±0.6	7.5±0.5	7.0±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)		⩾16.0	⩾16.0	⩾16.0	⩾16.0
Cross Polar Ratio (±60°)(dB)		⩾8.0	⩾7.0	⩾6.0	⩾6.0
Front to Back Ratio, ±30°(dB)		⩾22.0	⩾23.0	⩾23.0	⩾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/Y3/Y4/Y5/Y6/Y7/Y8:1695-2690			
		1695-1920	1920-2200	2200-2490	2490-2690
Gain (dBi)	at middle tilt	17.2	17.5	17.7	17.9
	over all tilt	17.0±0.7	17.3±0.5	17.5±0.5	17.7±0.7
Polarization		+45°/-45°			
Horizontal -3dB Beamwidth(°)		69±6	66±6	61±6	58±6
Vertical -3dB Beamwidth(°)		7.1±0.7(Y2/4/6/8) 7.5±0.7(Y1/3/5/7)	6.3±0.6(Y2/4/6/8) 6.7±0.7(Y1/3/5/7)	5.3±0.5(Y2/4/6/8) 5.7±0.7(Y1/3/5/7)	4.8±0.5(Y2/4/6/8) 5.2±0.7(Y1/3/5/7)

Product Specification

Electrical Downtilt(°)	2-12, continuously adjustable			
First Upper Side Lobe Suppression (Typ.)(dB)	≥15	≥15	≥15	≥15
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

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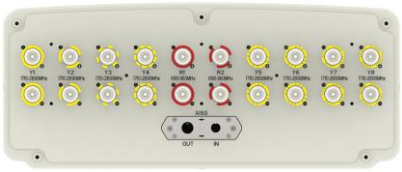
Certifications

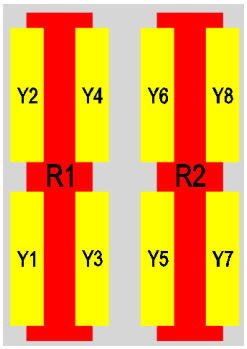
Mechanical Properties	
Radome Material	Fiberglass
Radome Colour	Light Grey
Connector Type	4.3-10(F)×20
Antenna Dimension (H×W×D)(mm)	2700×499×205
Packing Size (H×W×D)(mm)	2885×534×240
Antenna Net Weight (approx.) (kg)	54
Installation Kit Weight(kg)	5.6 (2 units)
Mechanical Downtilt(°)	0-8
Mast Diameter Supported(mm)	50-114
Pole Length(mm)	>2500
Operating Temperature(℃)	-40-+65
Wind Load (at 150 km/h)	1900/781/1900 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

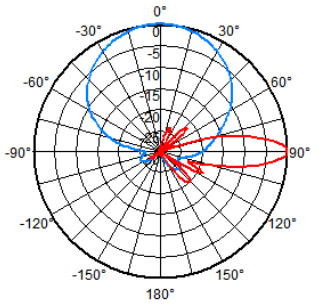


Array Layout



Reference Radiation Patterns

690-960MHz(65 deg)



1695-2690MHz(65 deg)