SL-1L2H-2P609012-4P172715-E15-V01

698-960/2×1710-2690MHz
65/65/65deg 12/15/15dBi XXXpol 6-port antenna
Integrated and replaceable RCU, each band individually adjustable
6x4.3-10(F) connectors @bottom

Antenna Specifications

Electrical Properties			
Frequency Range(MHz)		R1: 698-960	
		698-896	896-960
Gain (dBi)	at middle tilt	11.7	12.2
	over all tilt	11.5±0.7	12.0±0.5
Polarization		+45°/-45°	
Horizontal -3dB Beamwidth(°)		68.0±7.0	65.0±7.0
Vertical -3dB Beamwidth(°)		28.5±3.0	24.0±1.2
Electrical Downtilt(°)		2-15, continuously adjustable	
First Upper Side Lobe Suppression (Typ.)(dB)		⩾15.0	⩾15.0
Cross Polar Ratio (0°)(dB)		⩾15.0	⩾15.0
Cross Polar Ratio (±60°)(dB)		⩾8.0	⩾8.0
Front to Back Ratio, ±30°(dB)		⩾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)		300 (at 50℃ ambient temperature)	

Electrical Properties					
Frequency Range(MHz)		Y1,Y2: 1710-2690			
		1710-1880	1850-1920	1920-2180	2300-2690
Gain (dBi)	at middle tilt	14.3	14.7	15.0	15.3
	over all tilt	14.1±0.7	14.5±0.6	14.8±0.6	15.1±0.5
Polarization		+45°/-45°			
Horizontal -3dB Beamwidth(°)		67.0±3.0	65.0±3.0	63.0±3.0	61.0±3.0
Vertical -3dB Beamwidth(°)		12.8±0.9	12.2±0.7	11.4±0.7	9.4±0.6

Electrical Downtilt(°)	2-15, 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	⩾7.0	⩾6.0
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)	300 (at 50℃ ambient temperature)			

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

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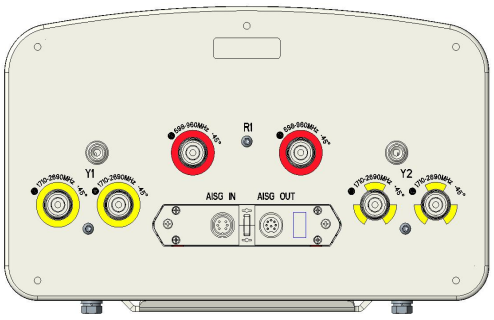
Certifications

Mechanical Properties	
Radome Material	Fiberglass
Radome Colour	Light Grey
Connector Type	4.3-10(F)×6
Antenna Dimension (H×W×D)(mm)	700×350×200
Packing Size (H×W×D)(mm)	935×430×240
Antenna Net Weight(kg)	11.0
Installation Kit Weight(kg)	4.7(2 units)
Shipping Weight(kg)	19.1
Mechanical Downtilt(°)	0-14
Mast Diameter Supported(mm)	60-120
Pole Length(mm)	>1000
Operating Temperature(℃)	-40-+65

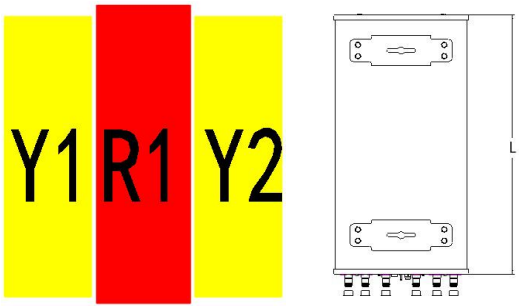
Wind Load (at 150 km/h)	346/197/380 N (Frontal/Lateral/Rear side)
Maximum Wind Speed (km/h)	200

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



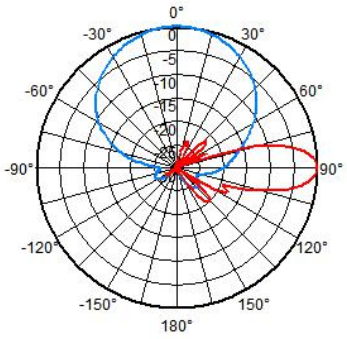
Array Layout



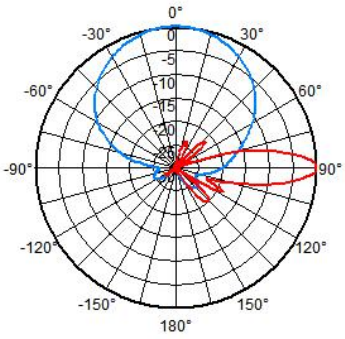
Reference Radiation Patterns

Horizontal Pattern&Vertical Pattern

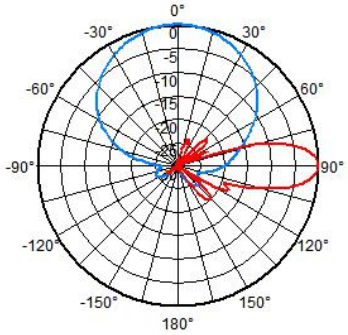
698-960MHz(65deg)



Vertical Pattern



1710-2690MHz(65deg)



Vertical Pattern