



Product Specifications

SL-2L4M-4P609015-8P172717-E12-V01

2*698-960/4*1710-2690MHz

65/65/65/65/65/65deg 15/15/17/17/17/17/17dB_i 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,R2:698-960			
		698-803	803-820	820-880	880-960
Gain (dBi)	at middle tilt	13.6	14.0	14.2	14.8
	over all tilt	13.4±0.7	13.8±0.5	14.0±0.6	14.6±0.5
Polarization		+45°/-45°			
Horizontal -3dB Beamwidth(°)		68±5	66±4	64±4	61±4
Vertical -3dB Beamwidth(°)		14.8±1.2	13.7±0.9	12.2±0.9	11.7±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)		≥22.0	≥22.0	≥22.0	≥22.0
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)		250 (at 50°C ambient temperature)			

Electrical Properties					
Frequency Range(MHz)		Y1,Y2,Y3,Y4: 1710-2690			
		1710-1920	1920-2200	2200-2490	2490-2690
Gain (dBi)	at middle tilt	15.7	16.2	16.5	16.0
	over all tilt	15.5±0.7	16.0±0.6	16.3±0.6	15.8±0.5



Product Specifications

Polarization	+45°/-45°			
Horizontal -3dB Beamwidth(°)	67±5	66±4	60±4	58±3
Vertical -3dB Beamwidth(°)	9±0.7	8.5±0.7	7.8±0.7	6±0.7
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)	≥22.0	≥22.0	≥22.0	≥22.0
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)	250 (at 50°C 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)×12
Antenna Dimension (H×W×D)(mm)	1600×448×188
Packing Size (H×W×D)(mm)	1900×524×223
Antenna Net Weight(kg)	29
Installation Kit Weight(kg)	5.6(2 units)



Product Specifications

Shipping Weight(kg)	40
Mechanical Downtilt(°)	0-15
Mast Diameter Supported(mm)	50-114
Pole Length(mm)	>1400
Operating Temperature(°C)	-40-+65
Wind Load (at 150 km/h)	1101/424/1212 N (Frontal/Lateral/Rear side)
Maximum Wind Speed (km/h)	200

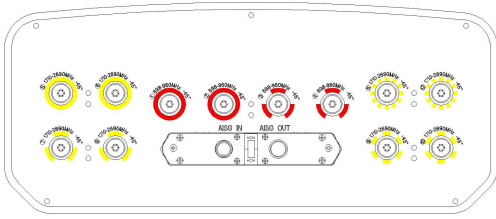
RET Properties

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

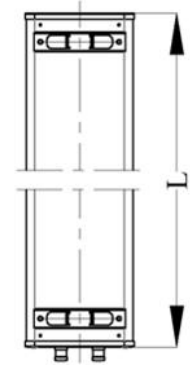
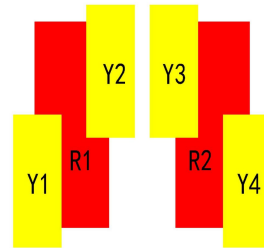


Product Specifications

Antenna Ports



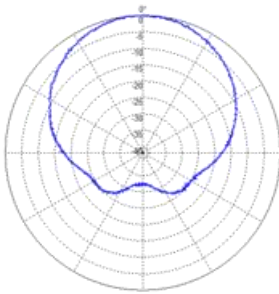
Array Layout



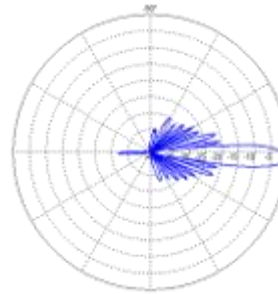
Reference Radiation Patterns

698-960MHz(65 deg)

Horizontal Pattern

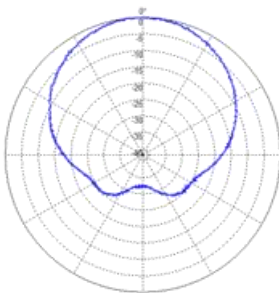


Vertical Pattern



1710-2690MHz(65 deg)

Horizontal Pattern



Vertical Pattern

