

SL-3L6M-6P609014-12P172716.5-E12-V01

3*690-960/6*1710-2690MHz

65/65/65/65/65/65/65/65/65deg 14/14/14/16.5/16.5/16.5/16.5/16.5/16.5dBi XXXXXXXXXX 18-port antenna

Integrated and replaceable RCU, each band individually adjustable

18x4.3-10(F) connectors @bottom

Antenna Specifications

Electrical Properties					
Frequency Range(MHz)		R1/R2/R3:690-960			
		690-803	790-862	820-894	880-960
Gain (dBi)	at middle tilt	13.0	13.3	13.5	13.8
	over all tilt	12.8±0.6	13.1±0.5	13.3±0.5	13.6±0.6
Polarization		+45°/-45°			
Horizontal -3dB Beamwidth(°)		71±5	67±5	65±5	59±5
Vertical -3dB Beamwidth(°)		16.3±1.2	15.1±0.9	13.6±0.9	12.8±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)		≥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/Y5/Y6:1710-2690			
		1710-1920	1920-2200	2200-2490	2490-2690
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±0.7
Polarization		+45°/-45°			
Horizontal -3dB Beamwidth(°)		70±6	66±6	62±6	58±6
Vertical -3dB Beamwidth(°)		11.2±1.2	10.2±0.9	9.0±0.9	8.2±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)	≥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°C ambient temperature)			

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

A member of



Certifications

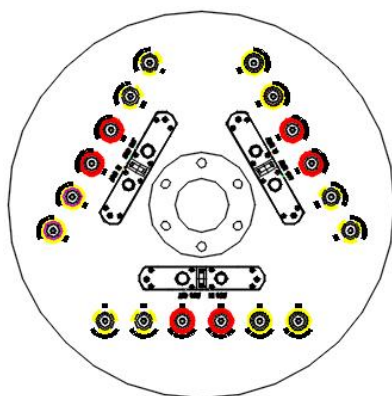


Mechanical Properties	
Radome Material	Fiberglass
Radome Colour	Light Grey
Connector Type	4.3-10(F)×18
Antenna Dimension (H×W×D)(mm)	1600× ϕ 500
Packing Size (H×W×D)(mm)	1820X600X600
Antenna Net Weight (approx.) (kg)	49.0
Mechanical horizontal adjustment angle(°)	±15°
Operating Temperature(°C)	-40-+65
Wind Load (at 150 km/h)	677/677/677 N (Frontal/Lateral/Rear side)
Maximum Wind Speed (km/h)	200

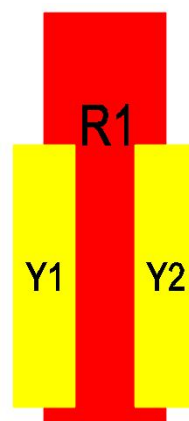
RET Properties	
Power Supply	10-30V dc
Power Consumption	≤2W (Idle), ≤10W (in Motion)
Hardware Interface	RS 485A/B(pin5, pin3); power supply(pin1, pin6); DC return(pin 7); according to AISG 2.0/3GPP

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 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

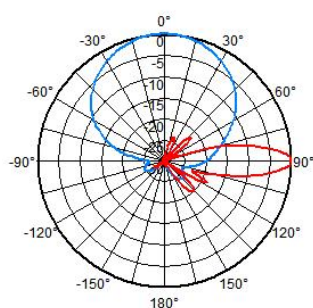


Array Layout



Reference Radiation Patterns

690-960MHz(65 deg)



1710-2690MHz(65 deg)

