



Product Specifications

SL-12M-24P1727D21-E12-V01

12× 1695-2690 MHz
33° /22.5 dBiXXXXXXXXXXXXpol Beam Hybrid Antenna
6° Fixed Down Tilt
24× 4.3-10 (F) Connectors @Bottom

Electrical Properties

Frequency Range (MHz)	Beam 1/7 (Port 1/2&13/14, Left)/Beam 6/12(Port 11/12&23/24, Right)				
	1695-1880	1850-1990	1920-2170	2300-2490	2500-2690
Gain (dBi)	19.8±0.5	20.7±0.5	21.0±0.5	20.6±0.5	20.3±0.5
Horizontal 3dB beamwidth (°)	12.5	11.1	9.5	8.3	7.1
Horizontal Beam Pointing (°)	±43	±39	±34	±32	±28
Vertical 3dB beamwidth (°)	17.6	16.3	15.5	13.5	11.2

Frequency Range (MHz)	Beam 2/8 (Port 3/4&15/16, Left)/Beam 5/11(Port 9/10&21/22, Right)				
	1695-1880	1850-1990	1920-2170	2300-2490	2500-2690
Gain (dBi)	20.8±0.5	21.7±0.5	22.0±0.5	21.7±0.5	21.3±0.5
Horizontal 3dB beamwidth (°)	10.5	9.5	8.1	7.3	6.5
Horizontal Beam Pointing (°)	±25	±22	±20	±18	±15
Vertical 3dB beamwidth (°)	13.9	13.0	12.1	11.0	9.8

Frequency Range (MHz)	Beam 3/9 (Port 5/6&17/18,Left)/Beam 4/10(Port 7/8&19/20,Right)				
	1695-1880	1850-1990	1920-2170	2300-2490	2500-2690
Gain (dBi)	21.1±0.5	22.0±0.5	22.3±0.5	22.5±0.5	22.3±0.5
Horizontal 3dB beamwidth (°)	10.2	8.8	7.5	6.9	6.1
Horizontal Beam Pointing (°)	±10	±9	±7	±7	±6
Vertical 3dB beamwidth (°)	12.5	11.8	11.3	10.2	9.2

Frequency Range (MHz):	1695-2690				
	1695-1880	1850-1990	1920-2170	2300-2490	2500-2690
Return Loss (dB)	VSWR<1.5				
Polarization (°)	±45				
Electrical Downtilt (°)	6 Fixed				
Upper Sidelobe Suppression (dB)	18	18	17	16	16
Front to Back Ratio at 180±30° (dB)	30	30	30	30	30
CPR at Boresight (dB):	15	15	15	15	15
crossover	Typ.9				
Isolation Between Polarizations	>30				
Isolation Between Beams	Beam 1/7 (Port 1/2&13/14, Left)/Beam 2/8 (Port 3/4&15/16, Left)				>26
	Beam 1/7 (Port 1/2&13/14, Left)/Beam 3/9 (Port 5/6&17/18,Left)/				>16

	Beam 1/7 (Port 1/2&13/14, Left)/Beam 4/10(Port 7/8&19/20,Right)	>26
	Beam 1/7 (Port 1/2&13/14, Left)/Beam 5/11(Port 9/10&21/22, Right)	>14
	Beam 1/7 (Port 1/2&13/14, Left)/Beam 6/12(Port 11/12&23/24, Right)	>16
	Beam 2/8 (Port 3/4&15/16, Left)/Beam 3/9 (Port 5/6&17/18,Left)/	>26
	Beam 2/8 (Port 3/4&15/16, Left)/Beam 4/10(Port 7/8&19/20,Right)	>16
	Beam 2/8 (Port 3/4&15/16, Left)/Beam 5/11(Port 9/10&21/22, Right)	>16
	Beam 2/8 (Port 3/4&15/16, Left)/Beam 6/12(Port 11/12&23/24, Right)	>14
	Beam 3/9 (Port 5/6&17/18,Left)/Beam 4/10(Port 7/8&19/20,Right)	>16
	Beam 3/9 (Port 5/6&17/18,Left)/Beam 5/11(Port 9/10&21/22, Right)	>16
	Beam 3/9 (Port 5/6&17/18,Left)/Beam 6/12(Port 11/12&23/24, Right)	>26
	Beam 4/10(Port 7/8&19/20,Right)/Beam 5/11(Port 9/10&21/22, Right)	>26
	Beam 4/10(Port 7/8&19/20,Right)/Beam 6/12(Port 11/12&23/24, Right)	>16
	Beam 5/11(Port 9/10&21/22, Right)/Beam 6/12(Port 11/12&23/24, Right)	>26
Power Rating (W):(dB):	200	
Intermodulation IM3 (dBc):	<-150 (2×43 dBm)	
Impedance (ohm):	50	
Lightning Protection:	DC Grounded	
Connector Type:	4.3-10	

Values based on NGMN-P-BASTA V11.1

A member of



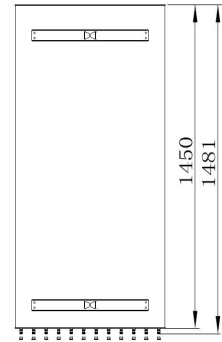
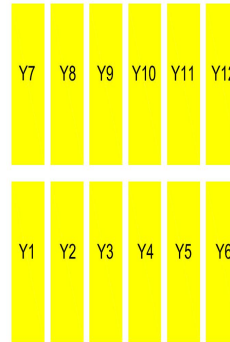
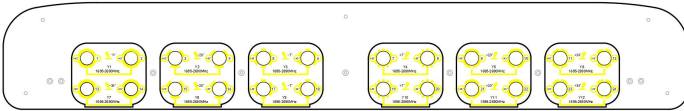
Certification:



Mechanical Specifications	
Dimensions, HxWxD (mm)	1450×1076×158
Shipping Dimensions, HxWxD (mm)	1780×1195×280
Net Weight, Antenna (kg)	<54
Net Weight, Mounting Kit (kg)	7.5
Shipping Weight (kg)	<85
Connector Type	24 x 4.3-10 Female
Connector Location	Bottom
Radome Material and Color	Fiberglass,
Mechanical Downtilt (°)	0-14
Operational Temperature (°C)	-40 to +60
Mounting Hardware (mm)	φ50~φ115
Operational Humidity (%)	≤95
Operational / Max Wind Speed (km/h)	150 / 200
Wind load (at 150 km/h)/(N)	Frontal/Lateral/Rear side: 2201/278/2421

Port Configuration

Array Layout

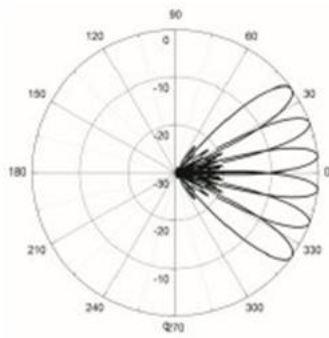


Y1~Y12

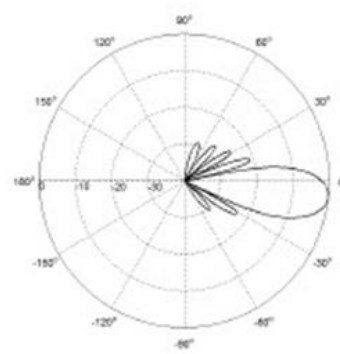
1695~2690MHz

Pattern sample for reference

1695-2690MHz



Hori. Pattern



Vert. Pattern