

Product Data Sheet

S-LU2PX12.10P-2Q

X Pol Panel TD Antenna 1695-2690MHz 90° 17dBi 2°-12° Replaceable RET

XX Pol Panel Antenna 2×698-960MHz 65° 16dBi 2°-12° Replaceable RET

General Electrical Properties		
General Parameters	Frequency Range (MHz) :	1695-2690(Y1)
	Polarization:	±45°
	Electrical Downtilt (°) :	2-12, continuously adjustable
	Lightning Grounding:	DC Grounded
	Connector Type:	2xMQ4, 1xCAL Port
Calibration and Electrical Parameters	Coupling Factor between calibration port and each antenna port (dB) :	-26±2
	Max Amp/Phase Deviation:	<1.2dB/12°
	VSWR:	<1.5
	Max. Power Per Port (W):	50
	Intraband Isolation (dB):	>20
	Interband Isolation (dB):	>20

Beamforming Electrical Properties				
Radiation Parameters	Frequency Range (MHz) :		1695-2690(Y1)	
			1695-2170	2300-2690
	Single Column	Horizontal 3dB Beamwidth (°):	70	60
		Vertical 3dB Beamwidth (°):	6.0±0.8	4.5±0.5
		Front to Back Ratio (dB):	23	24
		Gain (dBi):	17.0±0.8	18.0±0.9
		Cross Polar Ratio 0° (dB):	>15 (0°)	>15 (0°)
		Cross Polar Ratio ±60° (dB):	>4 (±60°)	>4 (±60°)
	Service Beam @ 0deg	0° Gain (dBi):	22.0±0.5	23.0±0.5
		0° Horizontal 3dB Beamwidth (°):	18	15
		Cross polar ratio (0°) (dB):	15	15
		Front to Back Ratio (dB):	25	25

Frequency Range (MHz):	698-960(R1,R2)		
	698-790	790-862	880-960
Gain (dBi):	15.3±0.6	15.6±0.5	15.8±0.7
Return Loss (dB):	>14 (VSWR<1.5)		
Polarization:	±45°		
Horizontal 3dB Beamwidth (°):	60	58	57
Vertical 3dB Beamwidth (°):	8.8	7.8	7.1
Electrical Downtilt (°):	2-12 Independently Continuously Adjustable		
RET Type:	Cascade SRET, AISG 2.0, Upgradeable		
1 st Upper Sidelobe Suppression (dB):	12	12	12
Intraband Isolation (dB):	>25		
Interband Isolation (dB):	>25		
Max. Power Per Port (W):	250		
Intermodulation IM3 (dBc):	<-153(2×43 dBm)		
Impedance (ohm):	50		
Lightning Protection:	DC Grounded		
Connector Type:	4×4.3-10 Female		



Product Data Sheet

S-LU2PX12.10P-2Q**Mechanical Data**

Antenna Dimensions (mm):	2495×498×197
Packing Dimensions (mm):	2755×580×285
Antenna Net Weight/Bracket (kg):	35/5.7
Antenna Gross Weight (kg):	47
Radome Material:	Fiberglass
Pipe OD (mm):	70-114
Mounting Kits (Included):	BA.K.04.00069471, Adjustable Downtilt0°-8°(0°-8°in 1°steps)

**Environmental Ratings**

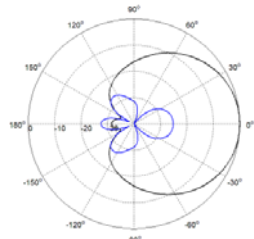
Humidity:	95%RH@+30℃
Temperature (℃):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside: 1627/296/1650
Max.Wind velocity(km/h):	200

Internal RET Specifications

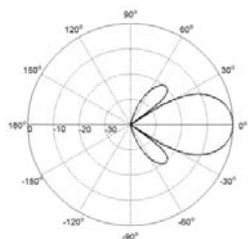
RET type:	Replaceable RET
RET protocol:	AISG2.0 /3GPP
Input voltage range(V):	10-30 DC
Power consumption(W):	< 5 (motor activated , single RET) < 1 (stand by, single RET), < 1.5 (stand by, 12V)
Adjustment time (full range) (s):	< 120 (typically, depending on antenna type)
RET connector:	1 pair of AISG 5 pin male & female
Pin assignment according AISG:	8pin circular connector conforming to IEC 60130-9 - Ed. 3.0
Lightning protection (kA):	5 (8/20 μs Differential mode), 8 (8/20 μs Common mode)



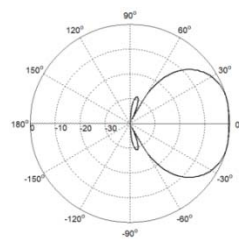
Product Data Sheet

S-LU2PX12.10P-2Q**Typical Patterns**

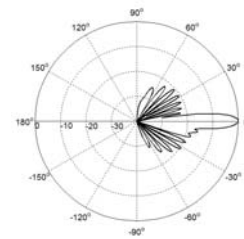
Single Column



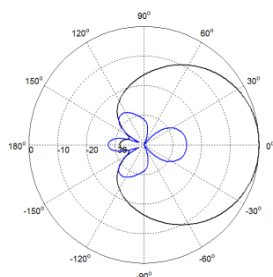
Service Beam @0deg



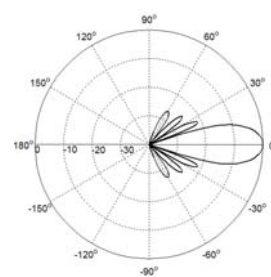
Broadcast Beam



Elevation



Azimuth(698-960MHz)



Elevation(690-960MHz)

Correlation Table

Frequency range	Array	Connector
698–960 MHz	R1	1-2
698–960 MHz	R2	3-4
1710–2690 MHz	Y1	5-12

