

Product Data Sheet

U22LLPX308.208P-2C

XXXXXX Pol Panel Antenna 2×698-960/2×1710-2690/2×1710-2690MHz 65°/33°/33° 15.5/18.5/18dBi 2°-12°/ 2°-12°/ 2°-12° Replaceable RET

Electrical Specifications

Frequency Range (MHz):	698-960(R1,R2)			1710-2690(Y1,Y2) (Dual beam)			1710-2690(Y3,Y4)(Dual beam)		
	698	806	880	1710	1880	2300	1710	1880	2300
	-806	-880	-960	-1880	-2170	-2690	-1880	-2170	-2690
Gain (dBi):	14.0	14.8	15.3	16.3	17.8	18.1	16.0	17.3	17.4
	±0.5	±0.5	±0.5	±0.8	±0.8	±0.8	±0.8	±0.8	±0.8
Return Loss (dB):	>14 (VSWR<1.5)								
Polarization:	±45°								
RET Type:	Cascade SRET, AISG 2.0, Upgradeable								
Horizontal Beam Pointing (°):				-29, +29	-26, +26	-22, +22	-29, +29	-26, +26	-22, +22
Horizontal 3dB Beamwidth (°):	72	65	60	35	32	25	35	32	25
Vertical 3dB Beamwidth (°):	12	10.5	9.5	11.5	10	8.5	11.5	10	8.5
Electrical Downtilt (°):	2-12 Independently Continuously Adjustable			2-12 Independently Continuously Adjustable					
The First Sidelobe Suppression (dB):	14	14	14	14	14	14	14	14	14
Front to Back Ratio (dB):	23	23	23	25	25	25	25	25	25
CPR at Boresight(dB):	15	15	15	12	13	13	12	13	13
Polarization Isolation (dB):	>25								
Interband Isolation (dB):	>25(R1//Y1,Y2//R2//Y3,Y4)								
Beam Isolation(dB):	/			>16			>16		
Max. Power Per Port (W):	300			200					
Intermodulation IM3 (dBc):	<-153(2×43 dBm)								
Impedance (ohm):	50								
Lightning Protection:	DC Grounded								
Connector Type:	12×4.3-10 Female								

Mechanical Data

Antenna Dimensions (mm):	2100×498×197
Packing Dimensions (mm):	2360×580×285
Antenna Net Weight/Bracket (kg):	45/5.9
Antenna Gross Weight (kg):	57
Radome Material:	Fiberglass
Pipe OD (mm):	50-115
Mounting Kits (Included):	BA.K.04.00069341, Adjustable Downtilt 0° -14°

Environmental Ratings

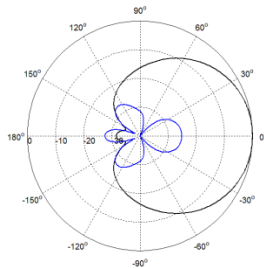
Humidity:	95%RH@+30℃
Temperature (°C):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside:1359/242/1379
Max. Wind velocity (km/h):	200



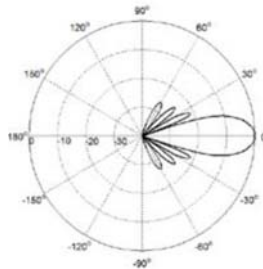
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U22LLPX308.208P-2C**Internal RET Specifications**

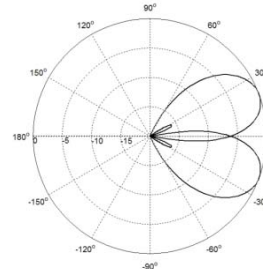
RET Type:	Replaceable RET
RET Protocol:	AISG2.0 /3GPP
Input voltage range(V):	10-30 DC
Power consumption(W):	< 5 (motor activated , single RET) < 1 (stand by, single RET), < 1.5 (stand by, 12V)
Adjustment time (full range):(s):	< 120 (typically, depending on antenna type)
RET connector:	1 pair of AISG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

Typical Patterns

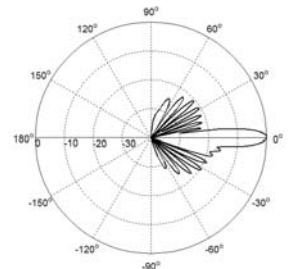
Azimuth(698-960MHz)



Elevation(698-960MHz)



Azimuth(1710-2690MHz)



Elevation(1710-2690MHz)

Correlation Table

Frequency range	Array	Connector
698–960 MHz	R1	1-2
698–960 MHz	R2	3-4
1710–2690 MHz	Y1	5-6
1710–2690 MHz	Y2	7-8
1710–2690 MHz	Y3	9-10
1710–2690 MHz	Y4	11-12

