Product Data Sheet

2LLPX210P-2C

XXXX Pol Twin Beam Panel Antenna 2×1710-2690/2×1710-2690MHz 32°/32° 20/20dBi 2-12°/2-12°Replaceable RET

Electrical Specifications

Frequency Range (MHz):	2×1710-2690(Y1,Y3)			2×1710-2690(Y2,Y4)		
	1710-1880	1880-2170	2300-2690	1710-1880	1880-2170	2300-2690
Gain (dBi):	18.3±0.5	18.7±0.5	19.5±0.5	17.6±0.5	18.1±0.5	18.9±0.5
Return Loss (dB):	>14(VSWR<1.5)					
Polarization:	±45°					
Horizontal 3dB Beamwidth (°):	41	38	30	41	38	30
Horizontal Beam Pointing (°):	-31, +31	-31, +31	-30, +30	-31, +31	-31, +31	-30, +30
Vertical 3dB Beamwidth (°):	8.2	7.4	5.9	8.2	7.4	5.9
Electrical Downtilt (°):	2-12 Independently Continuously Adjustable					
1st Upper Sidelobe Suppression(dB):	17	18	19	18	19	18
CPR at Boresight(dB):	18	18	18	18	18	18
Front to Back Ratio(dB):	27	27	22	27	26	22
Polarizations Isolation(dB) :	>28			>28		
Interband Isolation (dB):	>35			>35		
Intermodulation IM3 (dBc):	<-150 (2×43 dBm)					
Impedance (ohm):	50					
Max. Power Per Port (W):	200					
Lightning Protection:	DC Grounded					
Connector Type:	8×4.3-10 Female					

BASTA Electrical Specification

Frequency Range(MHz):	1710-2690(Y1,Y3)			1710-2690(Y2,Y4)		
	1710-1880	1880-2170	2300-2690	1710-1880	1880-2170	2300-2690
Average Gain by all Beam Tilts(dBi):	18.2	18.6	19.2	17.5	17.9	18.5
Gain by all Beam Tilts Tolerance(dB):	±0.7	±0.5	±0.8	±0.7	±0.5	±0.8
Average Gain by Beam Tilt (dBi):	2°|18.1 7°|18.3 12°|18.2	2°|18.6 7°|18.7 12°|18.4	2°|19.4 7°|19.5 12°|18.8	2°|17.5 7°|17.6 12°|17.4	2°|18.0 7°|18.1 12°|17.7	2°|18.7 7°|18.8 12°|18.0
3dBHorizontal Beamwidth Tolerance(°):	±2.6	±3.5	±3.0	±3.3	±3.8	±3.0
3dBVertical Beamwidth Tolerance(°):	±0.6	±0.9	±0.7	±0.9	±0.9	±0.7
1st Upper SidelobeSuppression (dB):	16	18	18	16	18	18
Front to back Total Power at 180° ± 30°(dB):	27	26	21	24	26	21
CPR at Boresight(dB):	21	20	21	21	20	21

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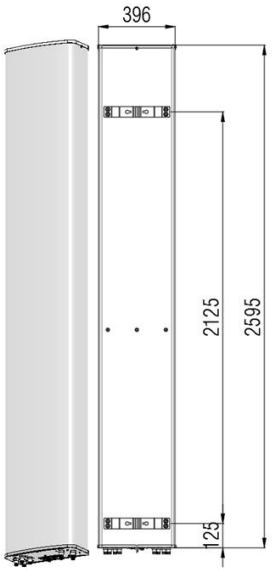
Mechanical Data

Antenna Dimensions (mm):	2595×396×190
Packing Dimensions (mm):	2855×480×280
Antenna Net Weight/Bracket (kg):	33/5.9
Antenna Gross Weight (kg):	46.5
Radome Material:	Fiberglass
Pipe OD (mm):	50-115
Mounting Kits (Included):	BA.K.04.00069091, Adjustable Downtilt 0°-10°



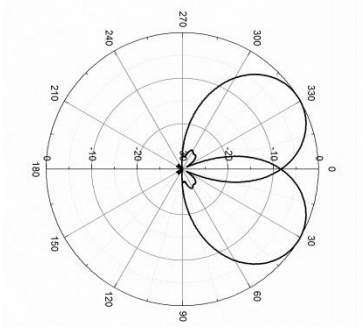
Environmental Ratings

Humidity:	95%RH@+30℃
Temperature（℃） :	-40～+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside: 1172/343/1541
Max. Wind velocity (km/h):	200

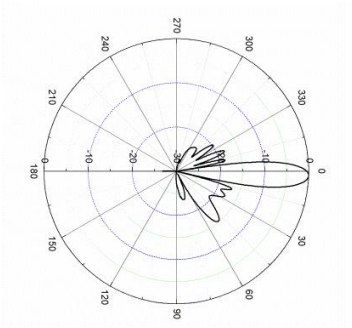
Internal RET Specifications

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)

Typical Patterns



Azimuth



Elevation

Our products are compliant to the EU Directive RoHS as well as to other environmentally relevant regulations.

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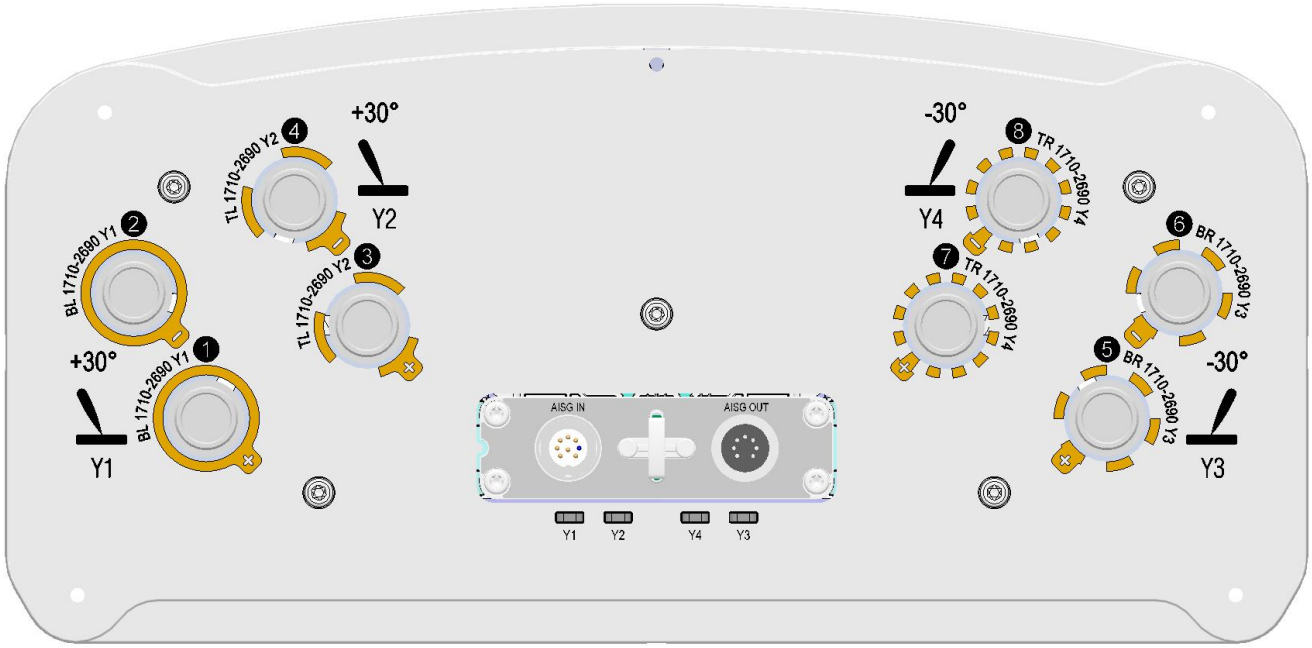
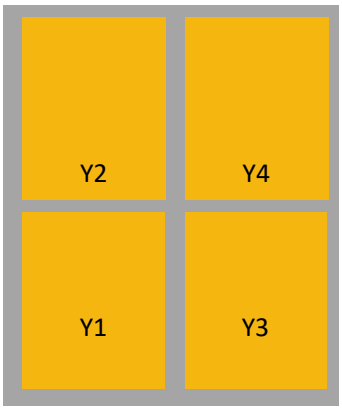
Bottom View



Correlation Table

Frequency range	Array	Connector	RET S/N
1710–2690 MHz	Y1	1-2	BRxxx……Y1
1710–2690 MHz	Y2	3-4	BRxxx……Y2
1710–2690 MHz	Y3	5-6	BRxxx……Y3
1710–2690 MHz	Y4	7-8	BRxxx……Y4



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