

# Product Data Sheet

## L2H2PX310P-DH2-C

XXXXXX Pol Panel Antenna 2×1710-2170/2×2500-2690/2×2500-2690MHz 65°/65°/65°  
16.5/17/17dBi 0°-10°Replaceable RET 4.3-10 Connector

### Electrical Specifications

Frequency Range (MHz):	2×1710-2170(B1,B2)			2×2500-2690(Y1,Y4)
	1710-1880	1920-2025	2025-2170	2500-2690
Gain (dBi):	15.7±0.5	16.0±0.5	16.3±0.5	16.5±0.5
Return Loss (dB):	>14 (VSWR<1.5)			
Polarization:	±45°			
Horizontal 3dB Beamwidth (°):	69	66	63	58
Vertical 3dB Beamwidth (°):	8.0	7.5	7.0	5.5
Electrical Downtilt (°):	0-10 Independently Continuously Adjustable			
RET Type:	Cascade SRET, AISG2.0, Upgradeable			
1 <sup>st</sup> Upper Sidelobe Suppression (dB):	15	15	15	15
Front to Back Ratio (dB):	24	24	24	24
Cross Polar Ratio 0° (dB):	15	15	15	15
Isolation Port to Port (dB):	>26			
Max. Power Per Port (W):	200			
Intermodulation IM3 (dBc):	<-150 (2×43 dBm)			
Impedance (ohm):	50			
Lightning Protection:	DC Grounded			

Frequency Range (MHz):	2×2500-2690(Y2,Y3)
Gain (dBi):	16.5±0.5
Return Loss (dB):	>14 (VSWR<1.5)
Polarization:	±45°
Horizontal 3dB beamwidth (°):	58
Vertical 3dB beamwidth (°):	6.2
Electrical Downtilt (°):	0-10 Independently Continuously Adjustable
1 <sup>st</sup> Upper Sidelobe Suppression (dB):	15
Front to Back Ratio (dB):	24
Cross Polar Ratio 0° (dB):	15
Isolation Port to Port (dB):	>26
Max. Power Per Port (W):	200
Intermodulation IM3 (dBc):	<-150 (2×43dBm)
Impedance (ohm):	50
Lightning Protection:	DC Grounded



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### BASTA Electrical Specifications

Frequency Range(MHz):	2×1710-2170(B1,B2)		
	1710-1880	1920-2025	2025-2170
Average Gain by Beam Tilts (dBi):	0° 16.18	0° 16.31	0° 16.16
	5° 16.26	5° 16.60	5° 16.17
	10° 16.10	10° 16.42	10° 15.80
Gain by all Beam Tilts Tolerance(dB):	±0.28	±0.27	±0.38
Horizontal BeamwidthTolerance(°):	±2.58	±2.93	±2.51
Vertical Beamwidth Tolerance(°):	±0.41	±0.30	±0.46
Upper Side Lobe Suppression, Peak to 20°(dB):	15.03	16.19	15.56
Front to back Total Power at 180° ± 30°(dB)	24.52	25.11	24.86
CPR at Boresight(dB):	16.17	19.01	22.32

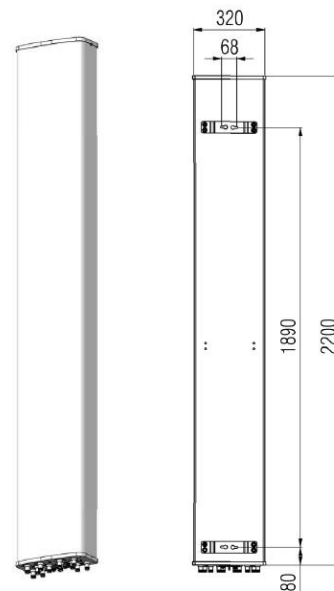
Frequency Range(MHz):	2×2500-2690(Y1,Y4)	2×2500-2690(Y2,Y3)
	2500-2690	2500-2690
Average Gain by Beam Tilts (dBi):	0° 16.54	0° 16.57
	5° 16.45	5° 16.51
	10° 16.14	10° 16.23
Gain by all Beam Tilts Tolerance(dB):	±0.51	±0.41
Horizontal BeamwidthTolerance(°):	±3.02	±2.95
Vertical Beamwidth Tolerance(°):	±0.44	±0.30
Upper Side Lobe Suppression, Peak to 20°(dB):	15.21	15.88
Front to back Total Power at 180° ± 30°(dB)	24.09	24.52
CPR at Boresight(dB):	15.60	17.47

### Mechanical Data

Antenna Dimensions (mm):	2200×320×140
Packing Dimensions (mm):	2460×405×230
Antenna Net Weight/Bracket (kg):	23.5 / 5.9
Antenna Gross Weight (kg):	33.5
Connector Type:	12×4.3-10 Female
Radome Material:	Fiberglass
Pipe OD (mm):	50-115
Mounting Kits (Included):	BA.K.04.00069071, Adjustable Downtilt 0°-8°

### Environmental Ratings

Humidity:	95%RH@+30℃
Temperature (℃):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside: 1029 / 298 / 965
Max. Wind velocity(km/h):	200

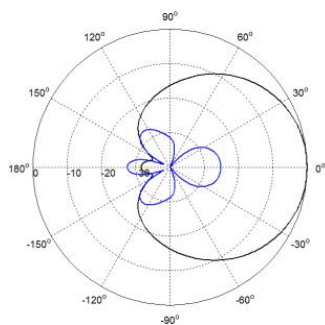


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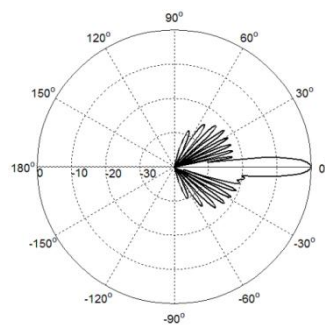
## Internal RET Specifications

RET type:	Replaceable RET
RET protocol:	AISG 2.0 /3 GPP
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 $\mu$ s Differential mode), 8 (8/20 $\mu$ s Common mode)

## Typical Patterns

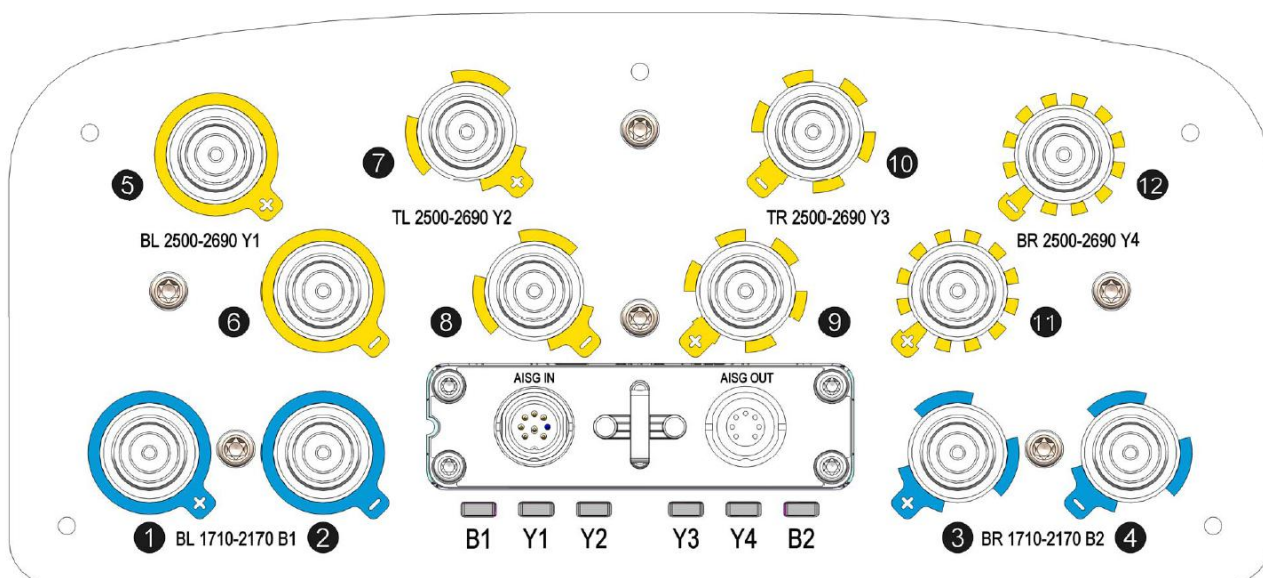


Azimuth



Elevation

## Bottom View



# L2H2PX310P-DH2-C

## Correlation Table

Frequency range	Array	Connector	RET S/N
1710–2170 MHz	B1	1-2	BRxxx.....1B1
1710–2170 MHz	B2	3-4	BRxxx.....2B2
2500–2690 MHz	Y1	5-6	BRxxx.....3Y1
2500–2690 MHz	Y2	7-8	BRxxx.....4Y2
2500–2690 MHz	Y3	9-10	BRxxx.....5Y3
2500–2690 MHz	Y4	11-12	BRxxx.....6Y4

