Product Data Sheet

2WPX0410P-V1

XX Pol Panel Twin Beam Antenna 2×1710-2170MHz 35° 20dBi 0°-10° Replaceable RET

Electrical Specifications

Frequency Range (MHz):	1710-2170(B1,B2)		
	1710-1880	1880-2025	2025-2170
Gain (dBi):	18.5±0.5	18.8±0.5	19.7±0.5
Return Loss (dB):	>14 (VSWR<1.5)		
Polarization:	±45°		
Horizontal 3dB Beamwidth (°):	2×37	2×32	2×29
Horizontal Beam Pointing (°)	-30, +30	-27, +27	-25, +25
Vertical 3dB Beamwidth (°):	8.7	8.0	7.5
Electrical Downtilt (°):	0-10Independently Continuously Adjustable		

1st Upper Sidelobe Suppression(dB):	0°	5°	10°	0°	5°	10°	0°	5°	10°
	17	16	15	17	16	15	17	16	15

Front to Back Ratio(dB):	25	25	25
Horizontal Sidelobe Suppression(dB):	12	12	12
Polarizations Isolation(dB) :	>28		
Max. Power Per Port (W):	200		
Intermodulation IM3 (dBc):	<-150(2×43 dBm)		
Impedance (ohm):	50		
Lightning Protection:	DC Grounded		
Connector Type:	4×7/16 DIN Female		

BASTA Electrical Specification

Frequency Range(MHz):	1710-2170		
	1710-1880	1880-2025	2025-2170
Average Gain by all Beam Tilts(dBi):	17.5	18.1	19.2
Gain by all Beam Tilts Tolerance(dB):	±0.8	±1.0	±0.9
Average Gain by Beam Tilt (dBi):	0°|17.5 5°|17.6 10°|17.3	0°|18.7 5°|18.4 10°|18.1	0°|19.6 5°|19.7 10°|18.6
3dBHorizontal Beamwidth Tolerance(°):	±2.5	±2.9	±1.4
3dBVertical Beamwidth Tolerance(°):	±1.7	±1.5	±1.5
Upper Side Lobe Suppression, Peak to 20°(dB):	11	14	13
Front to back Total Power at 180° ± 30°(dB):	26	26	27
CPR at Boresight(dB):	12	12	13

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

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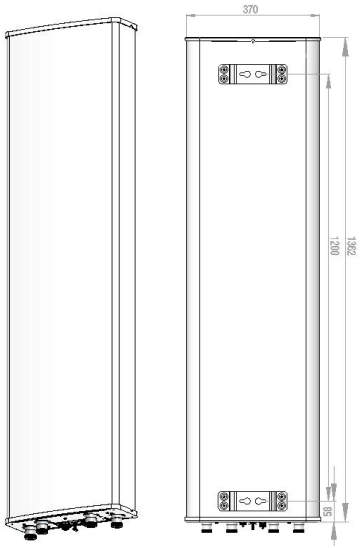
Mechanical Data

Antenna Dimensions (mm):	1362×370×124
Packing Dimensions (mm):	1680×435×200
Antenna Net Weight/Bracket (kg):	16/5.7
Antenna Gross Weight (kg):	25
Radome Material:	Fiberglass
Pipe OD (mm):	45-110
Mounting Kits (Included):	BA.K.04.000011, Adjustable Downtilt 0°-14°



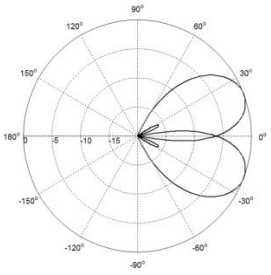
Environmental Ratings

Humidity:	95%RH@+30℃
Temperature (℃):	-40～+60
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside:698/165/493
Max. Wind velocity (km/h):	200

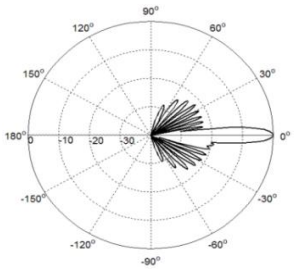
RET Internal RET Specifications

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 μs Differential mode), 8 (8/20 μs Common mode)

Typical Patterns

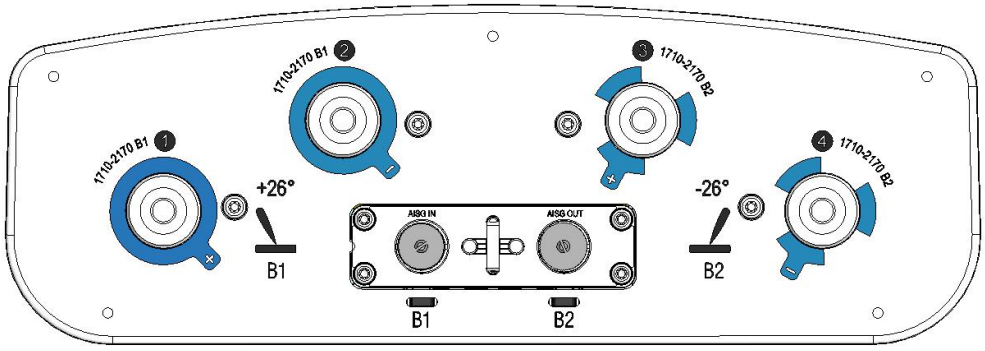


Azimuth



Elevation

Bottom View



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Correlation Table

Frequency range	Array	Connector	RET S/N
1710-2170MHz	B1	1-2	BRxxx……1B1
1710-2170 MHz	B2	3-4	BRxxx……2B2

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