

X Pol Panel Antenna 698-960MHz 33° 19.5dBi 2°-12° Replaceable RET

Electrical Specifications

Frequency Range (MHz):	698-960(R1)		
	698-862	862-894	894-960
Gain (dBi):	18.0±0.5	18.7±0.5	19.2±0.5
Return Loss (dB):	>14 (VSWR<1.5)		
Polarization:	±45°		
Horizontal 3dB beamwidth (°):	39	35	30
Vertical 3dB beamwidth (°):	9.2	8.0	7.0
Electrical Downtilt (°):	2-12 Independently Continuously Adjustable		
RET Type:	Cascade SRET, AISG 2.0, Upgradeable		
1 st Upper Sidelobe Suppression (dB):	15	15	15
Front to Back Ratio @180±30°(dB):	24	24	25
Cross Polar Ratio 0° (dB):	15	15	15
Cross Polar Ratio ±15° (dB):	10	10	10
Isolation Port to Port (dB):	>28		
Max. Power Per Port (W):	250		
Intermodulation IM3 (dBc):	<-150 (2×43 dBm)		
Impedance (ohm):	50		
Lightning Protection:	DC Grounded		
Connector Type:	2×4.3-10 Female		

BASTA Electrical Specifications

Frequency Range(MHz):	698-960(R1)		
	698-862	862-894	894-960
Average Gain by all Beam Tilts (dBi):	18.24	18.65	19.12
Gain by all Beam Tilts Tolerance(dB):	±0.53	±0.35	±0.61
Average Gain by Beam Tilt (dBi):	2° 18.30	2° 18.75	2° 19.22
	7° 18.23	7° 18.66	7° 19.10
	12° 18.17	12° 18.36	12° 18.85
Horizontal Beamwidth Tolerance(°):	±2.77	±2.94	±2.53
Vertical Beamwidth Tolerance(°):	±0.57	±0.62	±0.59
1st Upper Sidelobe Suppression (dB) :	15.35	15.62	15.53
Front to back Total Power at 180° ± 30°(dB):	24.84	25.18	25.84
CPR at Boresight(dB):	20.29	19.09	16.99

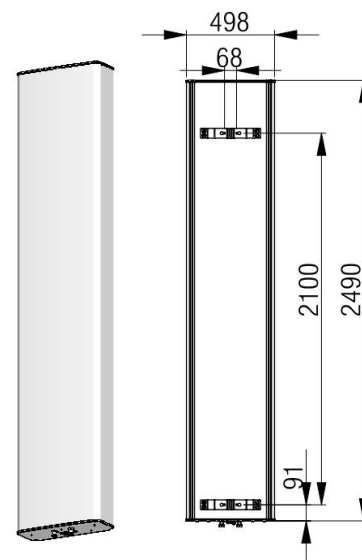
Product Data Sheet

UPX209P-E2-C



Mechanical Data

Antenna Dimensions (mm) :	2490×498×197
Packing Dimensions (mm) :	2760×585×290
Antenna Net Weight (kg) /Bracket (kg):	30.5/5.9
Antenna Gross Weight (kg) :	42.5
Radome Material:	Fiberglass
Pipe OD (mm):	50-114
Mounting Kits (Included):	BA.K.04.00069091, Adjustable Downtilt 0°-10°



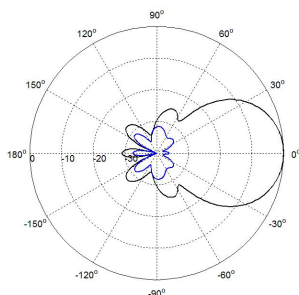
Environmental Ratings

Humidity:	95%RH@+30°C
Temperature (°C):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside: 2196/460/2315
Max. wind velocity (km/h):	150

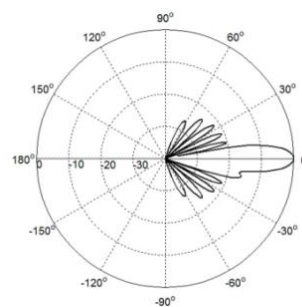
Internal RET Specifications

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 (standby, single RET), < 1.5 (standby, 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



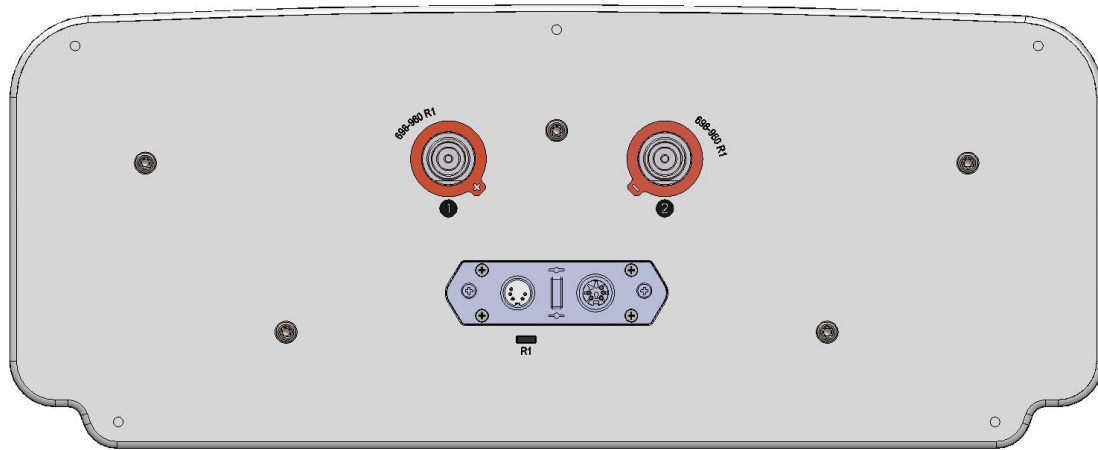
Azimuth



Elevation



Bottom View



Correlation Table

Frequency range	Array	Connector	RET/S/N
698-960MHz	R1	1-2	BRXXX.....1R1

