

**XX Pol Panel Antenna Built-in Diplexer 698-960/1710-2690MHz 65°/65° 14/17dBi
0°-14°/0°-10°Replaceable RET****Electrical Specifications**

Frequency Range (MHz):	698-960(R1)			1710-2690(Y1)		
	698-806	806-880	880-960	1710-2170	2300-2490	2490-2690
Gain (dBi):	13.2±0.5	13.6±0.5	14±0.5	15.5±0.5	16.4±0.5	16.8±0.5
Return Loss (dB):	>14 (VSWR<1.5)					
Polarization:	±45°					
Horizontal 3dB Beamwidth (°):	69	65	62	68	62	58
Vertical 3dB Beamwidth (°):	17	15.5	14	7.5	6.0	5.5
Electrical Downtilt (°):	0-14			0-10		
1 st Upper Sidelobe Suppression (dB):	16	15	15	15	15	15
Front to Back Ratio (dB):	22	23	24	25	25	25
Cross Polar Ratio 0°(dB):	15	15	15	15	15	15
Intraband Isolation (dB):	>25			>28		
Interband Isolation (dB):	>28					
Max. Power Per Port (W):	250			200		
Intermodulation IM3 (dBc):	<-150(2×43 dBm)					
Impedance (ohm):	50					
Lightning Protection:	DC Grounded					
Connector Type:	2×4.3-10 Female					

BASTA Electrical Specification

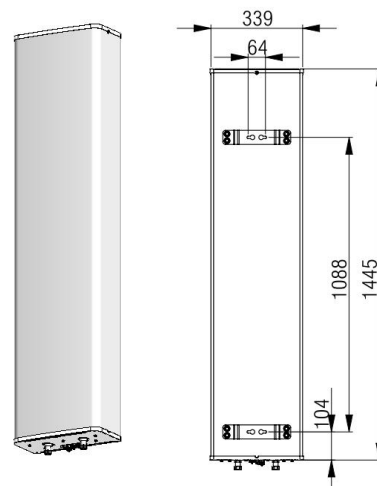
Frequency Range(MHz):	698-960(R1)			1710-2690(Y1)		
	698-806	806-880	880-960	1710-2170	2300-2490	2490-2690
Average Gain by all Beam Tilts (dBi):	12.8	13.5	13.9	15.7	16.6	16.8
Gain by all Beam Tilts Tolerance(dB):	±0.6	±0.4	±0.4	±0.6	±0.5	±0.4
Average Gain by Beam Tilt (dBi):	0° 13.1 7° 12.8 14° 12.5	0° 13.9 7° 13.5 14° 13.1	0° 14.5 7° 13.9 14° 13.2	0° 15.6 5° 15.9 10° 15.5	0° 16.7 5° 16.9 10° 16.3	0° 16.9 5° 17.1 10° 16.4
Horizontal Beamwidth Tolerance(°):	±3.5	±2.2	±1.4	±5.5	±4.7	±3.9
Vertical Beamwidth Tolerance(°):	±0.9	±0.7	±0.4	±0.8	±0.5	±0.4
USLS to 20° above beampeak(dB):	17.5	17.5	17.9	17.9	18.3	17.7
Front to back Ratio at 180° ± 30°(dB)	24.2	25.3	25	25	27.4	26.8
CPR at Boresight(dB):	15.5	15.2	15.6	15.3	15.6	15

Mechanical Data

Antenna Dimensions (mm):	1445×339×169
Packing Dimensions (mm):	1735×425×260
Antenna Net Weight/Bracket (kg):	16/ 5.9
Antenna Gross Weight (kg):	25.5
Radome Material:	Fiberglass
Pipe OD (mm):	50-114
Mounting Kits (Included):	BA.K.04.00069351 , Adjustable Downtilt 0°-16°

Environmental Ratings

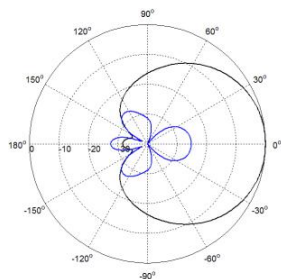
Humidity:	95%RH@+30°C
Temperature (°C):	-40~+70
Wind Load @150 km/h (N):	Frontal/ Lateral/ Rearside: 852 / 247 / 994
Max.Wind velocity(km/h):	200



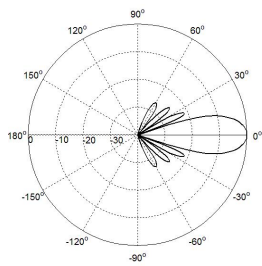
Internal RET Specifications

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:	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)

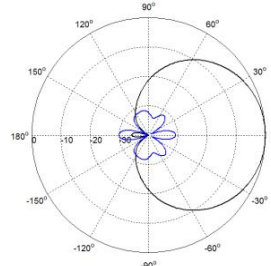
Typical Patterns



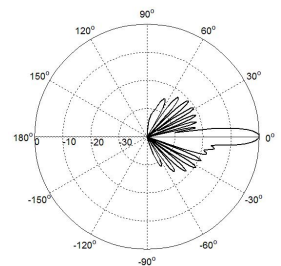
Azimuth(Low Band)



Elevation(Low Band)

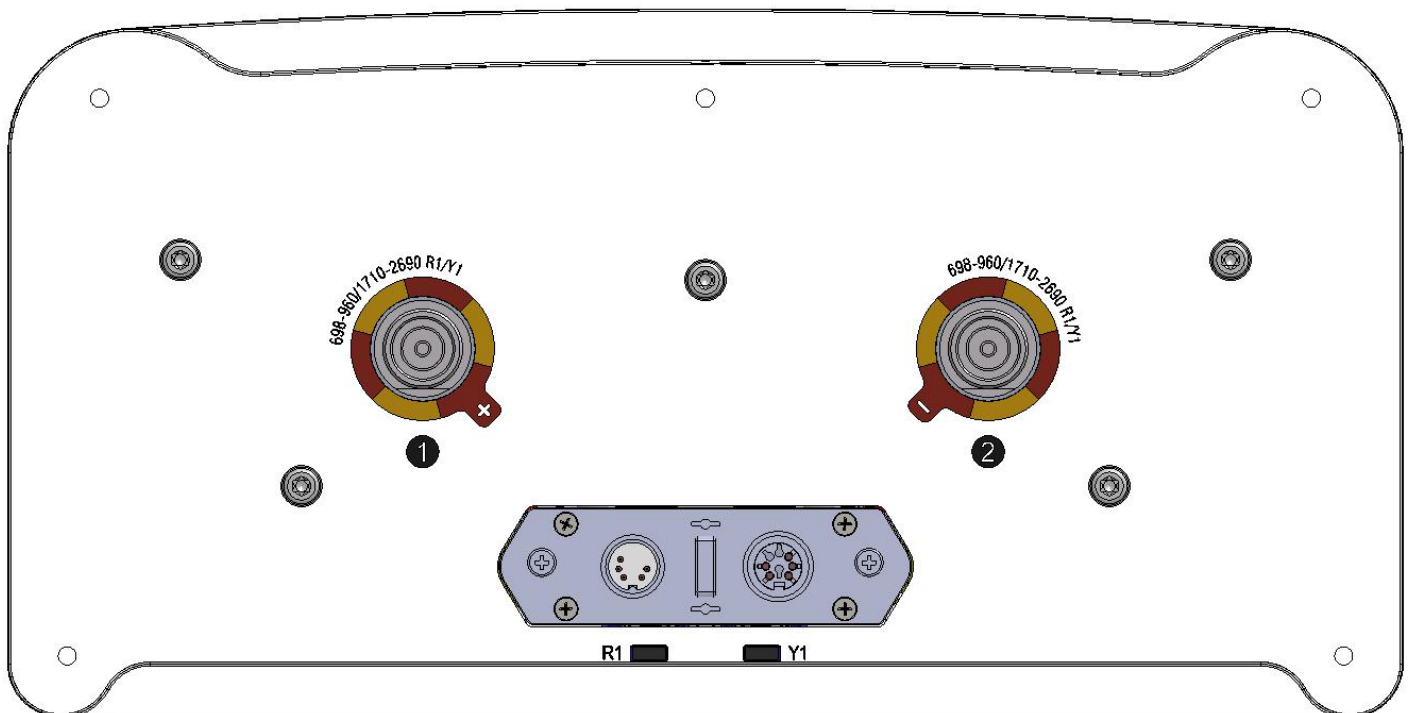


Azimuth(High Band)



Elevation(High Band)

Bottom View



ULPX305.10P-2P-C

Correlation Table

Frequency range	Array	Connector	RET S/N
698– 960 MHz	R1	1-2	BRxxx.....1R1
1710–2690 MHz	Y1	1-2	BRxxx.....2Y1

