Product Data Sheet

3UPX0605P

XXX Pol Panel Triple Beam Antenna 3×698-960MHz 22° 18dBi 4-12° Replaceable RET

Electrical Specifications

Frequency Range (MHz):	Beam 2 (Port 3/4, Middle)		
	698-960(R2)		
	698-790	790-880	880-960
Gain (dBi):	17.7±0.5	18.5±0.5	18.5±0.5
Horizontal 3dB beamwidth (°):	21	19	17
Horizontal Beam Pointing (°):	0	0	0
Vertical 3dB beamwidth (°):	16.5	14.5	13.2

Frequency Range (MHz):	Beam 1 (Port 1/2, Left)/ Beam 3 (Port 5/6, Right)					
	698-960(R1,R3)					
	698-790		790-880		880-960	
	B1	B3	B1	B3	B1	B3
Gain (dBi):	16.2±0.8	16.1±0.8	17.4±0.8	17.3±0.8	17.7±0.8	17.6±0.8
Horizontal 3dB beamwidth (°):	27	27	23	23	20	20
Horizontal Beam Pointing (°):	41	-40	36	-36	34	-33
Vertical 3dB beamwidth (°):	16	16	15	15	13	13

Frequency Range (MHz):	All Beams (Port 1 to 6)		
	698-790	790-880	880-960
Return Loss (dB):	>14 (VSWR<1.5)		
Polarization:	±45°		
Electrical Downtilt (°):	4-12		
Upper Sidelobe Suppression (dB):	16	18	15
Front to Back Ratio @180±30°(dB):	27	29	26
Isolation Between Polarizations (dB):	>25		
Beam Isolation(dB):	>16		
Max. Power Per Port (W):	250		
Total Power for the Antenna (W):	800		
Intermodulation IM3 (dBc):	<-150 (2×43 dBm)		
Impedance (ohm):	50		
Lightning Protection:	DC Grounded		
Connector Type:	6×7/16 DIN Female		

Electrical Specifications

Frequency Range (MHz):	698-790		790-880		880-960	
	Beam 2	Beam 1/ Beam 3	Beam 2	Beam 1/ Beam 3	Beam 2	Beam 1/ Beam 3
Average Gain by all Beam Tilts (dBi):	17.7	16.1	18.3	17.2	18.2	17.3
Gain by all Beam Tilts Tolerance(dB):	±0.4	±0.9	±0.5	±0.7	±0.5	±0.8
Average Gain by Beam Tilt (dBi):	17.7 | 4^0 17.7 | 8^0 17.6 | 12^0	16.1 | 4^0 16.1 | 8^0 16.0 | 12^0	18.5 | 4^0 18.4 | 8^0 18.1 | 12^0	17.3 | 4^0 17.2 | 8^0 17.0 | 12^0	18.5 | 4^0 18.2 | 8^0 17.9 | 12^0	17.7 | 4^0 17.3 | 8^0 16.9 | 12^0
Horizontal Beamwidth Tolerance(°):	±0.9	±2.2	±1.0	±2.0	±1.2	±2.0
Vertical Beamwidth Tolerance(°):	±1.0	±1.2	±0.8	±1.0	±0.8	±0.7
USLS beampeak to 20° above beampeak(dB):	18.6	13.6	17.6	17.6	18.3	15.1
Front to back Total Power at 180° ± 30°(dB):	30.7	27.1	30.7	29.0	31.0	26.7

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

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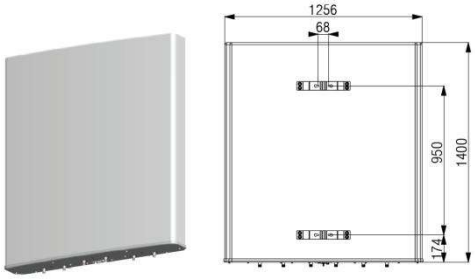
CPR at Boresight(dB):	11.1	14.2	13.1	15.1	14.6	14.7

Mechanical Data

Antenna Dimensions (mm):	1400×1256×210
Packing Dimensions (mm):	1643×1392×305
Antenna Net Weight/Bracket (kg):	58/5.7
Antenna Gross Weight (kg):	74
Radome Material:	Fiberglass
Pipe OD (mm):	70-114
Mounting Kits (Included):	BA.K.04.00069471, Adjustable Downtilt 0-16°(in 2°steps)



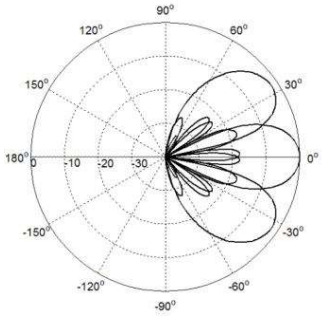
Environmental Ratings

Humidity:	95%RH@+30℃
Temperature (℃):	-40～+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside: 2127/106/2200
Max.Wind velocity(km/h):	200

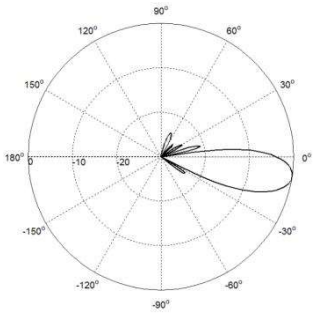
Internal RET Specifications

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):	< 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

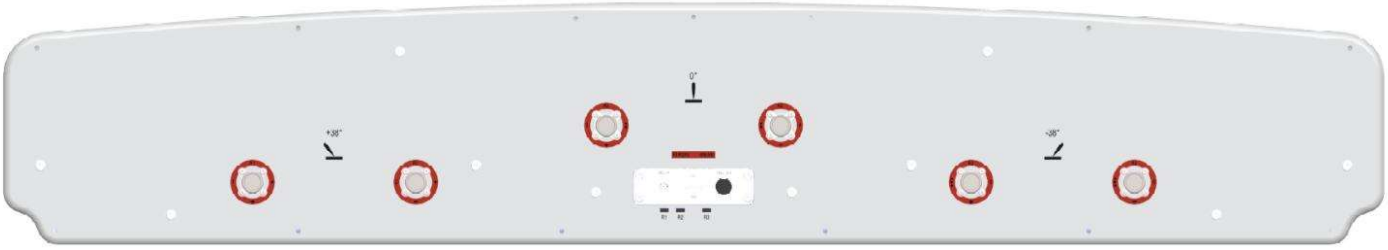


Azimuth



Elevation

Bottom View



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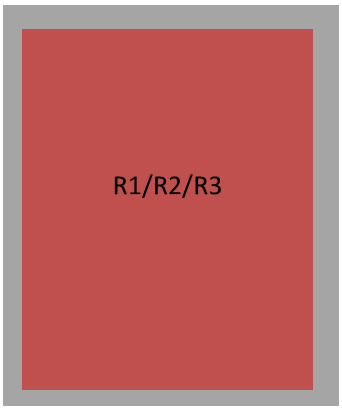
Correlation Table

Frequency range	Array	Connector	RET S/N
698-960 MHz	R1	1-2	BRxxx…….1R1
698-960 MHz	R2	3-4	BRxxx…….2R2
698-960 MHz	R3	5-6	BRxxx…….3R3



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