

Frequency Range	790-960x2 3300-3800x2
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x4

Type OCT4-2AA2Q-RD65

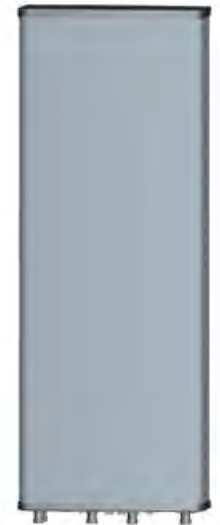
Base Station Antenna

8-ports 790-960 /790-960 /3300-3800 /3300-3800 MHz 65°, 14 / 14 / 17 / 17 dBi, 2°-12° / 2°-12° / 2°-12° / 2°-12° Tilt Antenna With 4 Integrated RCUs.



Electrical Specifications

Frequency Range(MHz)		2x790-960		2x3300-3800	
		790-880	880-960	3300-3600	3600-3800
Polarization		±45°			
Horizontal 3dB Beamwidth(°)		67	63	66	63
Vertical 3dB Beamwidth(°)		14.8	13.6	5.5	5
Gain (dBi)		13.5	14.0	16.8	17.3
Electrical Downtilt		2°-12°		2°-12°	
Upper Sidelobe Suppression(dB)	First	≥16	≥16	≥16	≥16
Front-to-Back Ratio Total Power, ± 30° (dB)		≥25	≥25	≥25	≥25
Cross polar ratio	Main direction(dB)	≥17	≥17	≥17	≥17
	± 60° (dB)	≥7	≥7	≥7	ni≥7
Isolation ports		≥25 dB			
Isolation Frequency		≥30 dB			
VSWR		< 1.5			
Intermodulation IM3		< -150 dBc(2x43dBm carrier)			
Impedance		50 Ω			
Max. Power per Input (at 50°C ambient temperature)		500 W		200 W	
Lightning Protection		DC Ground			



Mechanical Specifications

Radome Material	Fiber Glass
Connector Type and Location	4.3-10x12 ,Bottom iRCU in:1 x 8 pin male iRCU out:1 x 8 pin female
Dimensions,HxWxD(mm)/(inches)	1300 x 499 x 180 / 51.2 x 19.6 x 7.1
Packing Size(mm)/(inches)	1665 x 560 x 300 / 65.5 x 22 x 11.8
Weight ,w/o Mounting kit(kg)/(lbs)	30/66
Weight with Downtilt Bracket(kg)/(lbs)	37/81.4
Weight with Fixed Bracket(kg)/(lbs)	35/ 77
Packing Weight (with Downtilt Bracket) (kg)/(lbs)	45 / 99
Packing Weight (with Fixed Bracket) (kg)/(lbs)	43 / 94.6
Max. Wind Velocity(mph)	150
Mounting hardware	ϕ 50 mm ~ ϕ 115 mm
Operational Temperature(°C)	-40 to +65
Operational Humidity(%)	<95
Wind Load at 100mph (Frontal/lateral/Rearside(N))	755/149/544

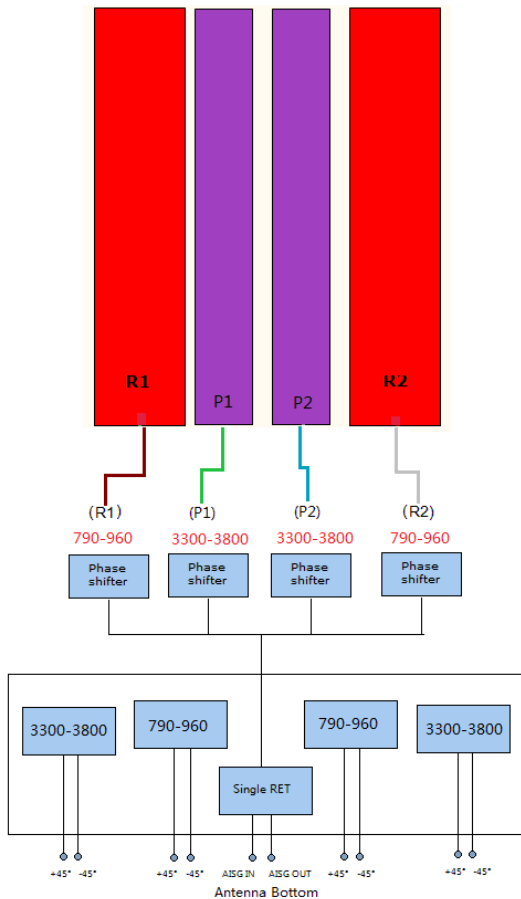
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Integrated RET Properties

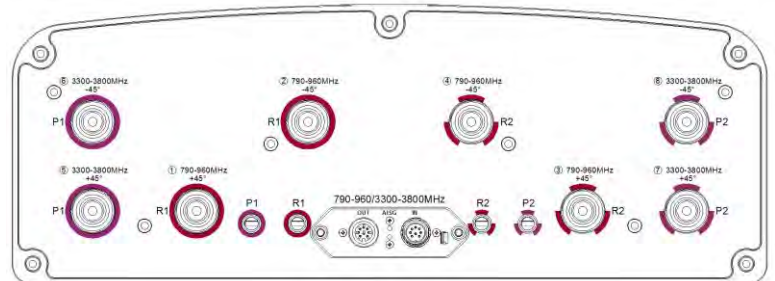
RET Type	4x Type 1 Single RET	
Protocols	Compliant to AISG 2.0/3GPP	
Input voltage range	+10~+30VDC(pin 6)	
Power consumption	<2W(stand by);<13W(motor activated)	
Connectors	AISG	2 x 8 pin connector acc. To IEC 60130-9 Acc.to AISG Daisy chain in:male Daisy chain out:female
	Antenna	Two motor shaft(Embedded motor)
Hardware interface	AISG	RS485A/B(pin5/pin3);Power supply(pin6); DC return(pin7)Acc.to AISG
Adjustment time(full range)	40 sec(typically,depending on antenna)	
Adjustment Cycles	≥10000	
Torque Max	≥160mN.m	
Lightning Protection Rating	IEC 61000-4-5 Current Pulse Profile,8/20 μs 10 Repetitions Min.@ 6kA IEC 61312-1 Annex B Current Pulse Profile, 10/350 μs,200 Repetitions Min. @ 0.6kA	

COMPREHENSIVE TILT CONFIGURATION



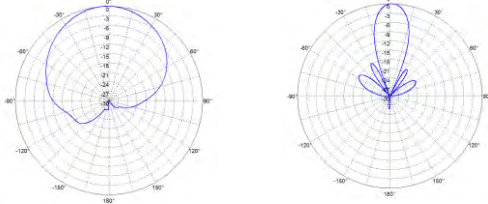
Frequency Range	Array	RET Unique ID
790-960MHz	R1	NDPMXXXXXXXX-7090R1
790-960MHz	R2	NDPMXXXXXXXX-7090R2
3300-3800MHz	P1	NDPMXXXXXXXX-3338P1
3300-3800MHz	P2	NDPMXXXXXXXX-3338P2

Note: (1) Physical RET Unit containing (4) Single RET



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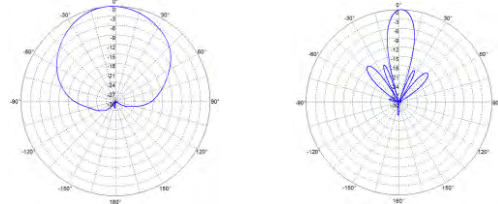
Radiation Pattern (790 - 880 MHz)



Horizontal Pattern

Vertical Pattern

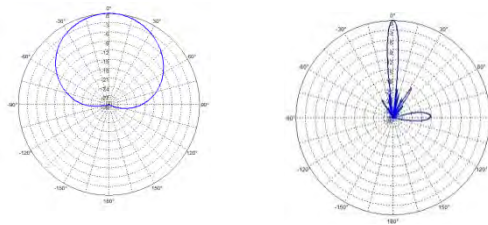
Radiation Patterns (880 - 960 MHz)



Horizontal Pattern

Vertical Pattern

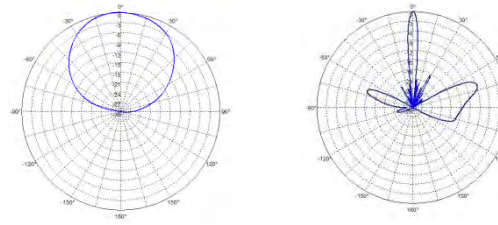
Radiation Patterns (3300 - 3600 MHz)



Horizontal Pattern

Vertical Pattern

Radiation Patterns (3600-3800 MHz)



Horizontal Pattern

Vertical Pattern