

Frequency Range	617-894x2
Polarization	±45°
Half-Power Beam Width	45°
Electrical Downtilt	2° - 12°x2

Type QUA8-2A-RB45

Base Station Antenna

4-ports 617-894 /617-894 MHz 45°, 17.0 / 17.0 dBi, 2°-12°/2°-12°Tilt Antenna With 2 Integrated RCUs.



Electrical Specifications

Frequency Range(MHz)		2x617-894		
		617-698	698-824	824-894
Polarization		±45°		
Horizontal 3dB Beamwidth(°)		50	46	42
Vertical 3dB Beamwidth(°)		10.4	9.1	8.0
Gain (dBi)		15.6	16.1	16.6
Electrical Downtilt		2°-12°		
Upper Sidelobe Suppression(dB)	First	≥16	≥16	≥16
Front-to-Back Ratio Total Power,±30° (dB)		≥25	≥25	≥25
Cross polar ratio	Main direction(dB)	≥16	≥16	≥16
Isolation ports		≥25 dB		
Isolation Frequency		≥30 dB		
VSWR		< 1.5		
Intermodulation IM3		< -153 dBc(2x43dBm carrier)		
Impedance		50 Ω		
Max. Power per Input (at 50°C ambient temperature)		500 W		
Lightning Protection		DC Ground		



Mechanical Specifications

Radome Material	Fiber Glass
Connector Type and Location	4.3-10x4 ,Bottom iRCU in:1 x 8 pin male iRCU out:1 x 8 pin female
Dimensions,HxWxD(mm)/(inches)	2438 x 499 x 180 / 95.9 x 19.6 x 7.1
Packing Size(mm)/(inches)	2750 x 620 x 325 / 108.3 x 24.4 x 12.8
Weight ,w/o Mounting kit(kg)/(lbs)	42.5 / 93.5
Weight w/ Downtilt Bracket(kg)/(lbs)	49.5 /108.9
Weight w/ Fixed Bracket(kg)/(lbs)	47.5 / 104.5
Packing Weight (w/ Downtilt Bracket) (kg)/(lbs)	59.5 /130.9
Packing Weight (w/ Fixed Bracket) (kg)/(lbs)	57.5 / 126.5
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))	1416/280/1027

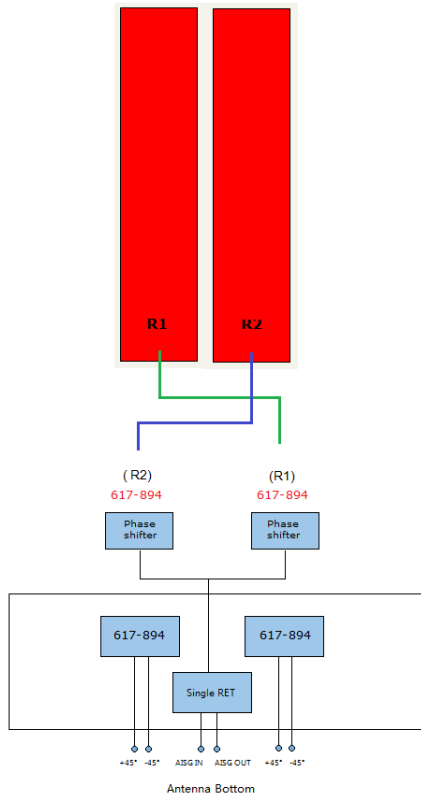
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Integrated RET Properties

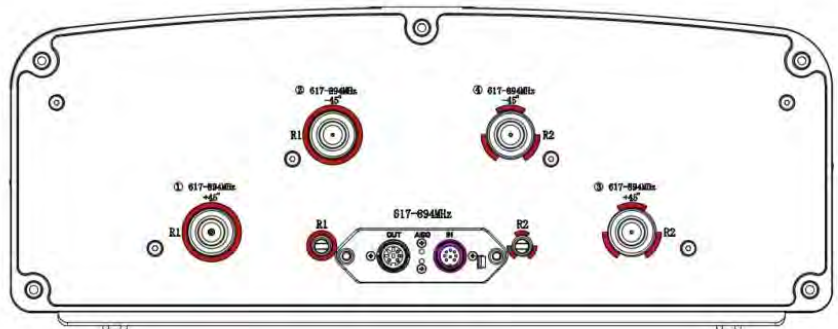
RET Type	2x Type 1 Single RET	
Protocols	Compliant to AISG 2.0/3GPP	
Input voltage range	+10~+30VDC(pin 6)	
Power consumption	<2W(stand by);<13W(motor activated)	
Connectors	AISG	2 x 8 pin connector acc. To IEC 60130-9 Acc.to AISG Daisy chain in:male Daisy chain out:female
	Antenna	Two motor shaft(Embedded 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
617-894MHz	R1	NDPMXXXXXXXX-6089R1
617-894MHz	R2	NDPMXXXXXXXX-6089R2

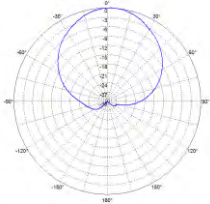
Note: (1) Physical RET Unit
containing (2) Single RET



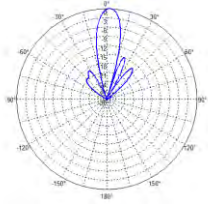
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Radiation Pattern (617 - 824 MHz)

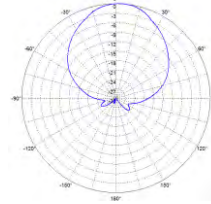


Horizontal Pattern

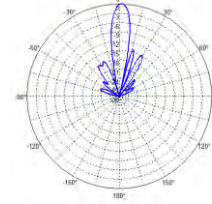


Vertical Pattern

Radiation Patterns (824 - 894 MHz)



Horizontal Pattern



Vertical Pattern