

Frequency Range	617-894x2
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x2

Type QUA6-2LX-BW65

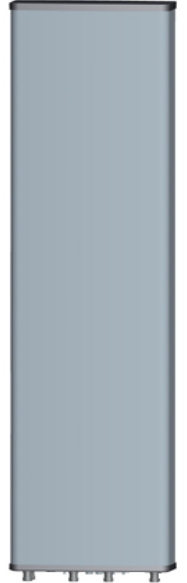
Base Station Antenna

4-ports 617-894 / 617-894 MHz 65°, 15 / 15 dBi, 2°-12° / 2°-12°Tilt Antenna With 1 Integrated RCU.



Electrical Specifications

Frequency Range(MHz)		2x617-894	
		617-698	698-894
Polarization		±45°	
Horizontal 3dB Beamwidth(°)		68	62
Vertical 3dB Beamwidth(°)		14	12
Gain (dBi)		14.2	15
Electrical Downtilt		2°-12°	
Upper Sidelobe Suppression(dB)	First	≥17	≥17
Front-to-Back Ratio Total Power,±30° (dB)		≥23	≥25
Isolation ports		≥25dB	
VSWR		< 1.5	
Intermodulation IM3 (dBc) (2x43dBm carrier)		< -150	< -153
Impedance		50 Ω	
Max. Power per Input (at 50°C ambient temperature)		500 W	
Lightning Protection		DC Ground	



Electrical Specifications,BASTA

Frequency Range(MHz)		2x617-894	
		617-698	698-894
Polarization		±45°	
Beamwidth, Horizontal Tolerance (°)		±4.2	±5.1
Beamwidth, Vertical Tolerance (°)		±1.1	±1.4
Gain by all Beam Tilts,average, (dBi)		14	14.4
Gain by all Beam Tilts,Tolerance, (dB)		±0.4	±0.7
Gain by all Beam Tilt,average (dBi)		2 14.0	2 14.4
		7 14.2	7 14.5
		12 13.9	12 14.2
Front-to-Back Ratio Total Power, ±30° (dB)		≥23	≥25
Cross polar ratio	Main direction(dB)	≥17	≥17
	±60° (dB)	≥8	≥8

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Mechanical Specifications

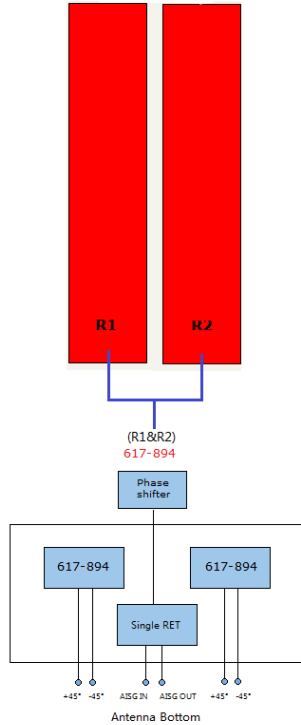
Radome Material	Fiberglass
Connector Type and Location	4.3-10x4 ,Bottom iRCU in:1 x 8 pin male iRCU out:1 x 8 pin female
Dimensions,HxWxD(mm)/(inches)	1850 x 499 x 180 / 72.8 x 19.6x 7.1
Packing Size(mm)/(inches)	2160 x 620 x 325 / 85.0 x 24.4 x 12.8
Weight ,w/o Mounting kit(kg)/(lbs)	30.5/ 67.1
Weight w/ Downtilt Bracket(kg)/(lbs)	36.5/80.3
Weight w/ Fixed Bracket(kg)/(lbs)	34.5/75.9
Packing Weight (w/ Downtilt Bracket) (kg)/(lbs)	44.5/97.9
Packing Weight (w/ Fixed Bracket) (kg)/(lbs)	42.5/93.5
Max. Wind Velocity(mph)	150
Mounting hardware	⌀ 50 mm ~ ⌀ 115 mm
Operational Temperature(°C)	-40 to +65
Operational Humidity(%)	<95
Wind Load at 100mph (Frontal/lateral/Rearside(N))	1067/239/772

Integrated RET Properties

RET Type		1x 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

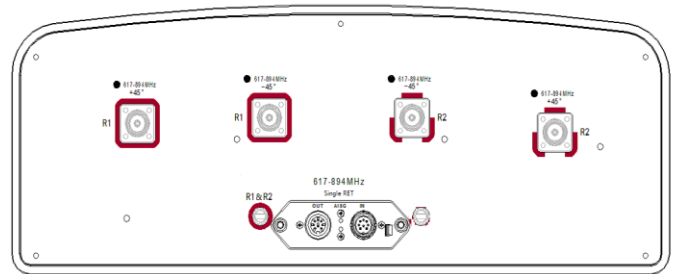
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COMPREHENSIVE TILT CONFIGURATION

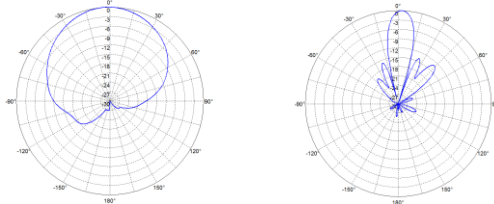


Frequency Range	Array	RET Unique ID
617-894MHz	R1/R2	NDPMXXXXXXXX-6089R1

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



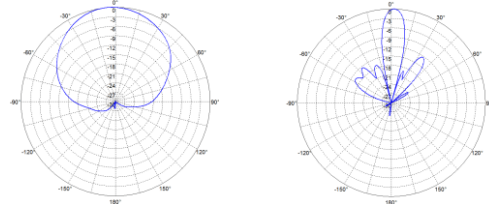
Radiation Pattern (617 - 824 MHz)



Horizontal Pattern

Vertical Pattern

Radiation Patterns (824 - 894 MHz)



Horizontal Pattern

Vertical Pattern