

Type QUA8-2LX-BW65

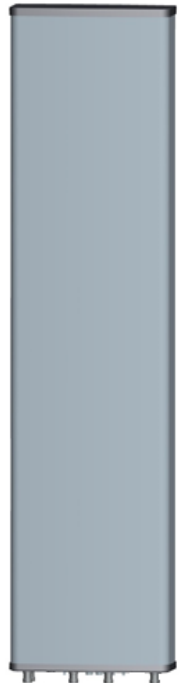
Base Station Antenna

4-ports 617-894 / 617-894 MHz 65° , 16.5/ 16.5 dBi, $2^\circ - 12^\circ$ / $2^\circ - 12^\circ$ Tilt Antenna With 1 Integrated RCU.



Electrical Specifications

Frequency Range(MHz)		2x617-894	
		617-698	698-894
Polarization		$\pm 45^\circ$	
Horizontal 3dB Beamwidth($^\circ$)		68	62
Vertical 3dB Beamwidth($^\circ$)		10.3	8.7
Gain (dBi)		16	16.3
Electrical Downtilt		$2^\circ - 12^\circ$	
Upper Sidelobe Suppression(dB)	First	≥ 17	≥ 17
Front-to-Back Ratio Total Power, $\pm 30^\circ$ (dB)		≥ 24	≥ 25
Isolation ports		≥ 25 dB	
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		$\pm 45^\circ$	
Beamwidth, Horizontal Tolerance ($^\circ$)		± 4	± 5.1
Beamwidth, Vertical Tolerance ($^\circ$)		± 0.6	± 1.2
Gain by all Beam Tilts, average, (dBi)		15.5	15.8
Gain by all Beam Tilts, Tolerance, (dB)		± 0.5	± 0.6
Gain by all Beam Tilt, average (dBi)		2 15.4	2 15.7
		7 15.7	7 16
		12 15.6	12 15.6
Front-to-Back Ratio Total Power, $\pm 30^\circ$ (dB)		≥ 24	≥ 25
Cross polar ratio	Main direction(dB)	≥ 17	≥ 17
	$\pm 60^\circ$ (dB)	≥ 8	≥ 8

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

Type QUA8-2LX-BW65

Mechanical Specifications

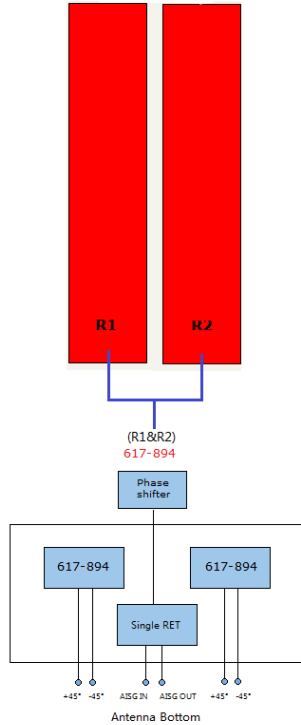
Radome Material	Fiberglass
Connector Type and Location	4.3-10x4 ,Bottom iRCU in:1 x 8 pin male iRCU out:1 x 8 pin female
Dimensions,HxWxD(mm)/(inches)	2438 x 499 x 180 / 95.9 x 19.6 x 7.1
Packing Size(mm)/(inches)	2750 x 620 x 325 / 108.3 x 24.4 x 12.8
Weight ,w/o Mounting kit(kg)/(lbs)	37/81.4
Weight w/ Downtilt Bracket(kg)/(lbs)	43/94.6
Weight w/ Fixed Bracket(kg)/(lbs)	41/90.2
Packing Weight (w/ Downtilt Bracket) (kg)/(lbs)	51/112.2
Packing Weight (w/ Fixed Bracket) (kg)/(lbs)	49/107.8
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))	1416/280/1027

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

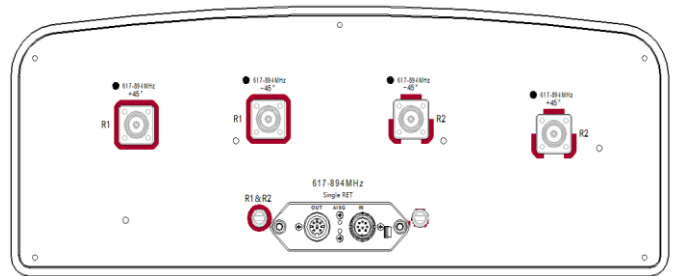
Frequency Range	617-894x2
Polarization	$\pm 45^\circ$
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x2

COMPREHENSIVE TILT CONFIGURATION

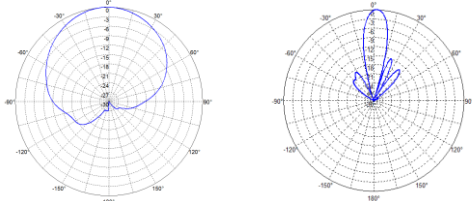


Frequency Range	Array	RET Unique ID
617-894MHz	R1/R2	NDPMXXXXXXXX-6089R1

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



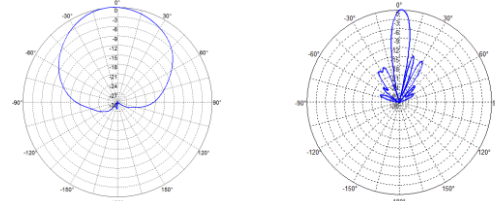
Radiation Pattern (617 - 824 MHz)



Horizontal Pattern

Vertical Pattern

Radiation Patterns (824 - 894 MHz)



Horizontal Pattern

Vertical Pattern