

Base Station Antennas

Frequency Range	(2x) 617-894 MHz
Polarization	±45°
Half-Power Beam Width	33°
Electrical Downtilt	(2x) 2° - 12°

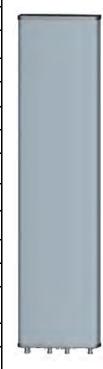
Type QUA8-2A-RB33

Base Station Antenna

4-ports 617-894 MHz / 617-894 MHz, HBW 33°, 18.5 dBi / 18.5 dBi, 2°-12° / 2°-12° Tilt Antenna With 2 Integrated RCU.

Electrical Specifications

(2x) 617-894		
617-698	698-894	
±45°		
37 ±4	32 ±5.1	
10.3 ±0.6	8.7 ±1.2	
17.6	18.3	
17.5 ±0.5	17.8 ±0.6	
2°-12°		
≥17	≥17	
≥17	≥17	
≥25	≥26	
≥25		
< 1.5		
<-150	<-153	
50		
500		
DC Ground		
	617-698 ±45° 37 ±4 10.3 ±0.6 17.6 17.5 ±0.5 ≥17 ≥17 ≥25 ≥25 <-150 50	



All specifications follow BASTA standards



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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)	2438 x 630 x 165 / 95.9 x 24.8 x 6.5
Packing Size (mm) / (inches)	2860 x 695 x 305 / 112.6 x 27.4 x 12.0
Weight w/o Mounting kit (kg) / (lbs)	39.5 / 86.9
Weight w/ Downtilt Bracket (kg) / (lbs)	45.5 / 100.1
Weight w/ Fixed Bracket (kg) / (lbs)	43.5 / 95.7
Packing Weight (w/ Downtilt Bracket) (kg) / (lbs)	57 / 125.4
Packing Weight (w/ Fixed Bracket) (kg) / (lbs)	55 / 121
Max. Wind Velocity (mph)	150
Mast diameter supported (mm)	φ 50 ~ φ 115
Operational Temperature (°C)	-40 to +65
Operational Humidity (%)	<95
Wind Load at 100mph (Frontal / lateral / Rearside) (N)	1660 / 287 / 1200

Integrated RET Properties

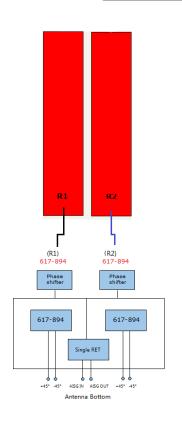
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RET Type		2x Type 1 Single RET	
Protocols		Compliant to AISG 2.0/3GPP	
Input voltage range (DC V)		+10~+30 (pin 6)	
Power consumption (W)		<2 (stand by); <13 (motor activated)	
Connectors AISG		2 x 8 pin connector acc. To IEC 60130-9 Acc.to AISG Daisy 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	
Motor Torque Max (mN-m)		≥160	
Lightning Protection Rating		IEC 61000-4-5 Current Pulse Profile, 8/20 µs, 10 Repetitions Min.@ 6 kA IEC 61312-1 Annex B Current Pulse Profile, 10/350 µs, 200 Repetitions Min. @ 0.6kA	

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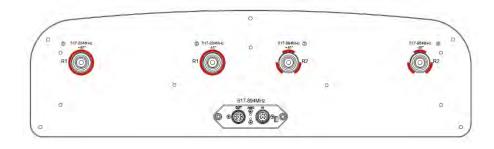
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COMPREHENSIVE TILT CONFIGURATION

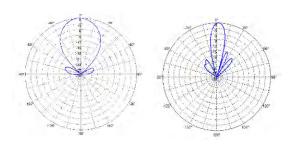


Frequency Range	Array	RET Unique ID
617-894 MHz	R1	NDPMXXXXXXXXX-6089R1
617-894 MHz	R2	NDPMXXXXXXXX-6089R2

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

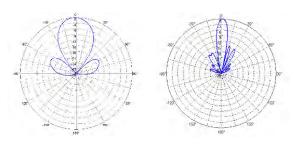


Radiation Pattern (617 - 824 MHz)



<u>Horizontal Pattern</u> <u>Vertical Pattern</u>

Radiation Patterns (824 - 894 MHz)



Horizontal Pattern Vertical Pattern