

Frequency Range	617-894x2 1695-2200x2
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x2 2° - 12°x2

Type OCT8-2A2K-RB65HG



Base Station Antenna

8-ports 617-894 / 617-894 / 1695-2200 / 1695-2200 MHz 65°, 17 / 17/ 20 / 20 dBi, 2°-12° / 2°-12° / 2°-12° / 2°-12° Tilt Antenna With 2 Integrated RCUs.

Electrical Specifications

Frequency Range(MHz)		2x617-894			2x1695-2200		
		617-698	698-824	824-894	1695-1880	1850-1990	1920-2200
Polarization		±45°					
Horizontal 3dB Beamwidth(°) ¹		68±5	64±5	62±5	66±4	65±4	63±4
Vertical 3dB Beamwidth(°) ¹		10.4±0.5	9.1±0.5	8.0±0.5	4.7±0.3	4.4±0.3	4.1±0.5
Gain over all tilts ,max,(dBi)		16.0	16.7	17.1	19.5	19.8	20.0
Average gain over all tilts,dBi		15.4±0.6	16.1±0.6	16.5±0.6	19.1±0.4	19.4±0.4	19.6±0.4
Electrical Downtilt		2°-12°			2°-12°		
Upper Sidelobe Suppression(dB) ¹	First	≥17	≥17	≥17	≥19	≥19	≥19
	Boresight to 20° ¹	≥16	≥16	≥16	≥16	≥16	≥16
Front-to-Back Ratio Co-polar power (dB)	@180°	≥28	≥29	≥29	≥32	≥32	≥32
	@180±30°	≥27	≥27	≥27	≥30	≥30	≥30
Cross polar ratio	Main direction(dB)	≥20	≥20	≥20	≥22	≥22	≥22
	±60° (dB)	≥9	≥9	≥9	≥8	≥8	≥8
Minimum cross-polar isolation, port-to-port, dB ¹		≥25dB					
Isolation Frequency		≥30dB					
VSWR		< 1.5					
Intermodulation IM3		< -153 dBc(2x43dBm carrier)					
Impedance		50 Ω					
Max. Power per Input (at 50°C ambient temperature)		500 W			300 W		
Lightning Protection		DC Ground					

¹Typical value over frequency and tilt

Mechanical Specifications

Radome Material	ASA
Connector Type and Location	4.3-10x8 ,Bottom iRCU in:1 x 8 pin male iRCU out:1 x 8 pin female
Dimensions,HxWxD(mm)/(inches)	2438 x 635 x 180 / 95.9 x 25.0x 7.1
Packing Size(mm)/(inches)	2880 x760 x 300 / 113.4 x 30.0 x 11.8
Weight ,w/o Mounting kit(kg)/(lbs)	38.5 / 84.7
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)	56.5 / 124.3
Packing Weight (w/ Fixed Bracket) (kg)/(lbs)	54.5 /119.9
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))	1802/402/1303

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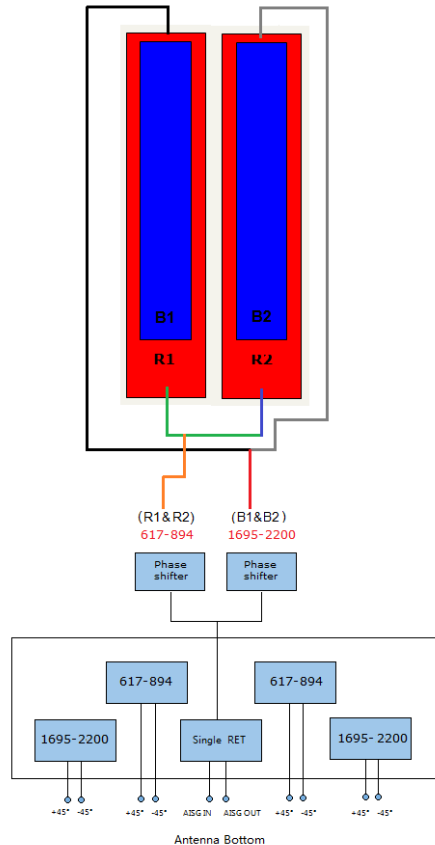
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Integrated RET Properties

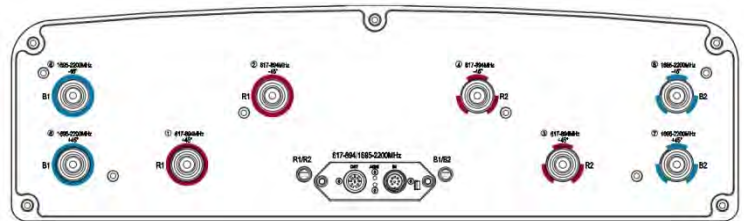
RET Type	2x Type 1 Single RET	
Protocols	Compliant to AISG 3.0/3GPP	
Input voltage range	+10~+30VDC(pin 6)	
Power consumption	<2W(stand by);<10W(motor activated)	
Connectors	AISG	2 x 8 pin connector acc. To IEC 60130-9 Acc.to AISG Daisy chain in:male Daisy chain out:female
	Antenna	Two motor shaft(Embedded 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/R2	NDPMXXXXXXXX-6089R1
1695-2200MHz	B1/B2	NDPMXXXXXXXX-1722B1

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



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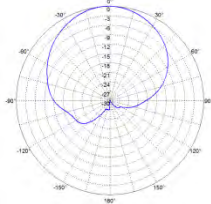
Frequency Range 617-894x2
1695-2200x2

Polarization $\pm 45^\circ$

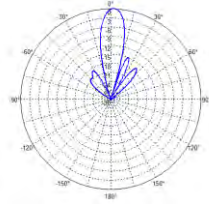
Half-Power Beam Width 65°

Electrical Downtilt $2^\circ - 12^\circ \times 2$
 $2^\circ - 12^\circ \times 2$

Radiation Pattern (617 - 824 MHz)

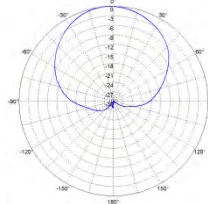


Horizontal Pattern

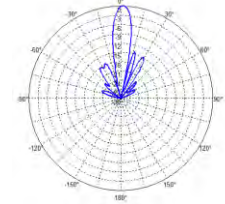


Vertical Pattern

Radiation Patterns (824 - 894 MHz)

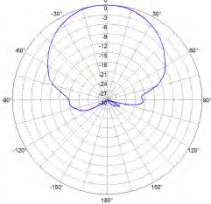


Horizontal Pattern

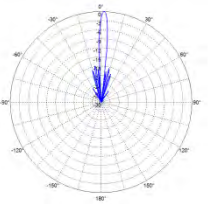


Vertical Pattern

Radiation Pattern (1695 - 1920 MHz)

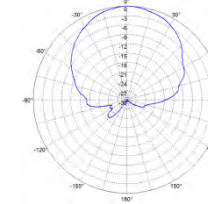


Horizontal Pattern

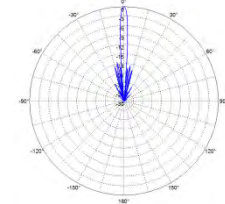


Vertical Pattern

Radiation Patterns (1920 - 2200 MHz)



Horizontal Pattern



Vertical Pattern