

Frequency Range	617-894x2 1695-2690x2
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x2 2° - 12°x2

Type OCT8-2A2J-RC65A

Base Station Antenna

8-ports 617-894 / 617-894 /1695-2690 /1695-2690 MHz 65°, 15.5 / 15.5 / 18.5/ 18.5 dBi, 2°-12° / 2°-12° / 2°-12° / 2 - 12 °Tilt Antenna With 3 Integrated RCUs.



Electrical Specifications

Frequency Range(MHz)		2x617-894		2x1695-2690				
		617-698	698-894	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690
Polarization		±45°						
Horizontal 3dB Beamwidth(°)		71	60	66	65	62	58	60
Vertical 3dB Beamwidth(°)		10.3	8.7	5.7	5.5	5.1	4.5	4.1
Gain (dBi)		14.8	15.4	17.5	18	18.5	18.5	18.6
Electrical Downtilt		2°-12°		2°-12°				
Upper Sidelobe Suppression(dB)	First	≥16	≥16	≥16	≥16	≥16	≥16	≥16
Front-to-Back Ratio Total Power, ± 30° (dB)		≥23	≥24	≥25	≥25	≥25	≥25	≥25
Isolation ports		≥25dB						
Isolation Frequency		≥28dB						
VSWR		< 1.5						
Intermodulation IM3 dBc (2x43dBm carrier)		< -150	< -153	< -153				
Impedance		50 Ω						
Max. Power per Input (at 50°C ambient temperature)		500 W		200 W				
Lightning Protection		DC Ground						



Electrical Specifications,BASTA

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		617-698	698-894	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690
Polarization		±45°						
Beamwidth, Horizontal Tolerance (°)		±5	±6.5	±3.2	±3.9	±6.1	±5.8	±6.3
Beamwidth, Vertical Tolerance (°)		±0.6	±1.2	±0.3	±0.4	±0.4	±0.3	±0.3
Gain by all Beam Tilts,average, (dBi)		14.5	14.9	17.3	17.7	18.2	18.2	18.2
Gain by all Beam Tilts,Tolerance, (dB)		±0.5	±0.6	±0.3	±0.4	±0.6	±0.4	±0.5
Gain by all Beam Tilt,average (dBi)		2 14.4	2 14.8	2 17.4	2 17.7	2 18	2 18.1	2 18.1
		7 14.7	7 15.1	7 17.5	7 17.8	7 18.3	7 18.5	7 18.5
		12 14.6	12 14.9	12 17.2	12 17.6	12 18.2	12 18.1	12 18.0
Front-to-Back Ratio Total Power, ±30° (dB)		≥23	≥24	≥25	≥25	≥25	≥25	≥25
Cross polar ratio	Main direction(dB)	≥17	≥17	≥17	≥17	≥17	≥17	≥17
	±60° (dB)	≥7	≥7	≥7	≥7	≥7	≥7	≥7

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Mechanical Specifications

Radome Material	Fiberglass
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 420 x 180 / 95.9 x 16.5 x 7.1
Packing Size(mm)/(inches)	2750 x 540 x 325 / 108.3 x 21.3 x 12.8
Weight ,w/o Mounting kit(kg)/(lbs)	45 / 99
Weight w/ Downtilt Bracket(kg)/(lbs)	51 / 112.2
Weight w/ Fixed Bracket(kg)/(lbs)	49 / 107.8
Packing Weight (w/ Downtilt Bracket) (kg)/(lbs)	61 / 134.2
Packing Weight (w/ Fixed Bracket) (kg)/(lbs)	59 / 129.8
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))	1191/280/864

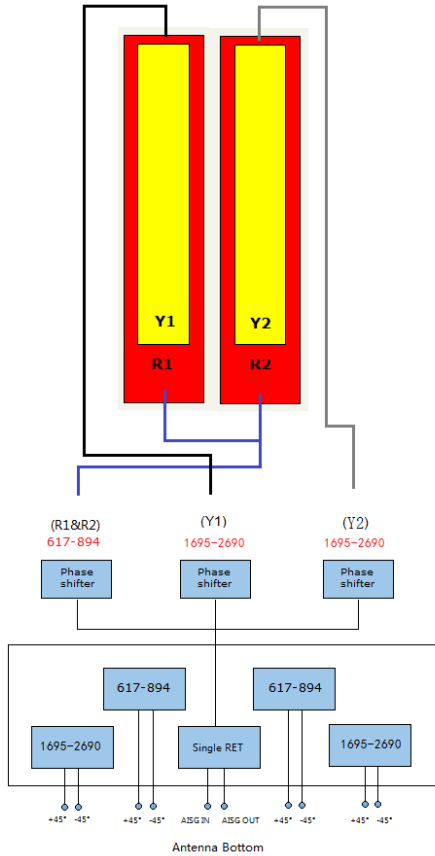
Integrated RET Properties

RET Type		3x 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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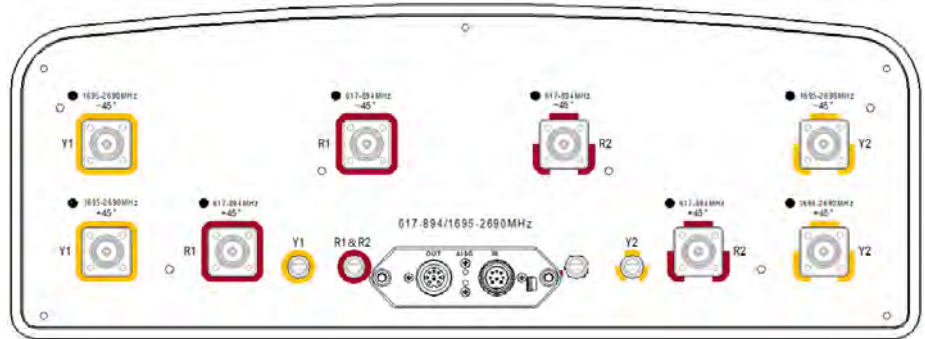
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COMPREHENSIVE TILT CONFIGURATION



Frequency Range	Array	RET Unique ID
617-894MHz	R1/R2	NDPMXXXXXXXX-6089R1
1695-2690MHz	Y1	NDPMXXXXXXXX-1727Y1
1695-2690MHz	Y2	NDPMXXXXXXXX-1727Y2

Note: (1) Physical RET Unit
containing (3) Single RET



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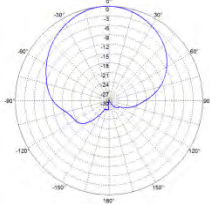
Polarization $\pm 45^\circ$

Half-Power Beam Width 65°

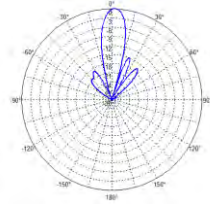
Electrical Downtilt $2^\circ - 12^\circ \times 2$

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

Radiation Pattern (617 - 824 MHz)

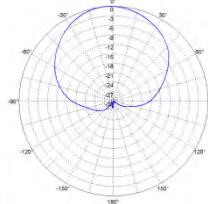


Horizontal Pattern

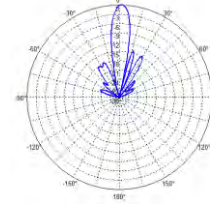


Vertical Pattern

Radiation Patterns (824 - 894 MHz)

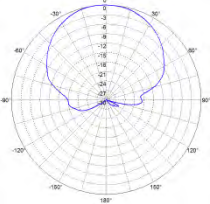


Horizontal Pattern

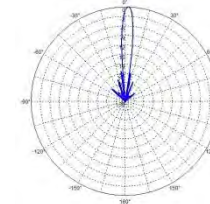


Vertical Pattern

Radiation Pattern (1695 - 2200 MHz)

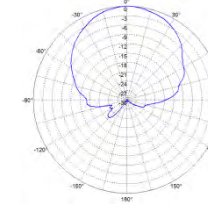


Horizontal Pattern

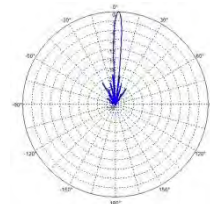


Vertical Pattern

Radiation Patterns (2300 - 2500 MHz)

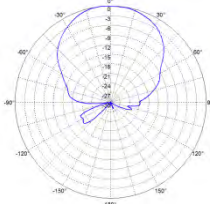


Horizontal Pattern

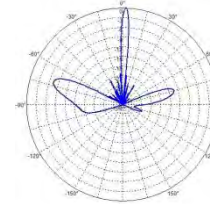


Vertical Pattern

Radiation Pattern (2500 - 2690 MHz)



Horizontal Pattern



Vertical Pattern