

Frequency Range	617-894x2 1695-2690x4
Polarization	±45°
Half-Power Beam Width	45°
Electrical Downtilt	2° - 12°x2 2° - 12°x4

Type DOD6-2A4J-RD45

Base Station Antenna

12-ports 617-894 / 617-894 / 1695-2690 / 1695-2690 / 1695-2690 / 1695-2690 MHz 45°, 15.5 / 15.5 / 18.5 / 18.5 / 18.5 / 18.5dBi, 2°-12° / 2°-12° / 2°-12° / 2 - 12° / 2°-12° / 2 - 12° Tilt Antenna With 4 Integrated RCUs.



Electrical Specifications

Frequency Range(MHz)		2x617-894			4x1695-2690			
		617-698	698-824	824-894	1695-1920	1920-2180	2300-2400	2490-2690
Polarization		±45°						
Horizontal 3dB Beamwidth(°)		50	46	42	48	45	41	38
Vertical 3dB Beamwidth(°)		13.5	12	10.5	7.5	6.5	6	5.5
Gain (dBi)		14.8	15.4	16.0	17.1	17.6	18.1	18.5
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)		≥25	≥25	≥25	≥25	≥25	≥25	≥25
Cross polar ratio	Main direction(dB)	≥17	≥17	≥17	≥17	≥17	≥17	≥17
Isolation ports		≥25 dB						
Isolation Frequency		≥30 dB						
VSWR		< 1.5						
Intermodulation IM3		< -150 dBc(2x43dBm carrier)						
Impedance		50 Ω						
Max. Power per Input (at 50°C ambient		500 W			300 W			
Lightning Protection		DC Ground						



Mechanical Specifications

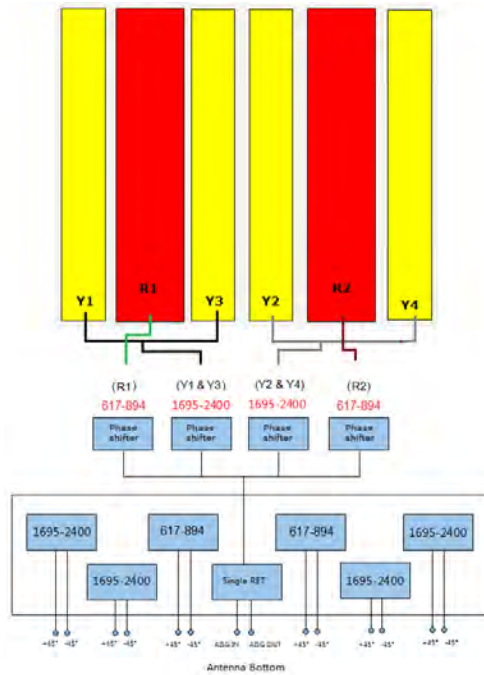
Radome Material	ASA
Connector Type and Location	4.3-10x12 ,Bottom iRCU in:1 x 8 pin male iRCU out:1 x 8 pin female
Dimensions,HxWxD(mm)/(inches)	1850 x 635 x 180 / 72.8 x 25.0x 7.1
Packing Size(mm)/(inches)	2195 x 735 x 390 / 86.4 x 29.0x 15.3
Weight ,w/o Mounting kit(kg)/(lbs)	38 / 83.6
Weight w/ Downtilt Bracket(kg)/(lbs)	45 / 99.0
Weight w/ Fixed Bracket(kg)/(lbs)	43 / 94.6
Packing Weight (w/ Downtilt Bracket) (kg)/(lbs)	54 / 118.8
Packing Weight (w/ Fixed Bracket) (kg)/(lbs)	52 / 114.4
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))	1614/303/1166

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Integrated RET Properties

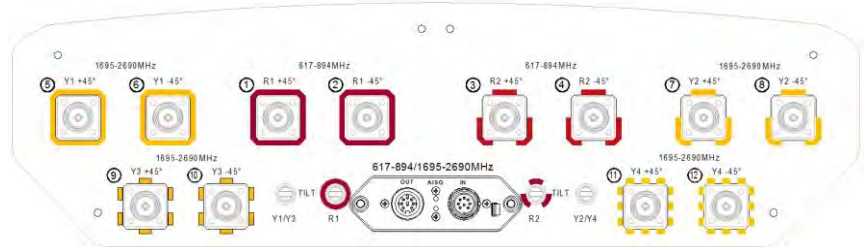
RET Type	4x Type 1 Single RET	
Protocols	Compliant to AISG 2.0/3GPP	
Input voltage range	+10~+30VDC(pin 6)	
Power consumption	<2W(stand by);<13W(motor activated)	
Connectors	AISG	2 x 8 pin connector acc. To IEC 60130-9 Acc.to AISG Daisy chain in: male Daisy chain out: female
	Antenna	Two motor shaft(Embedded 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	

COMPREHENSIVE TILT CONFIGURATION



Frequency Range	Array	RET Unique ID
617-894MHz	R1	NDPMXXXXXXXX-6089R1
617-894MHz	R2	NDPMXXXXXXXX-6089R2
1695-2690MHz	Y1/Y3	NDPMXXXXXXXX-1727Y1
1695-2690MHz	Y2/Y4	NDPMXXXXXXXX-1727Y2

Note: (1) Physical RET Unit containing (4) Single RET



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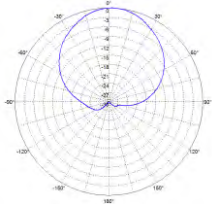
Frequency Range 617-894x2
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Polarization $\pm 45^\circ$

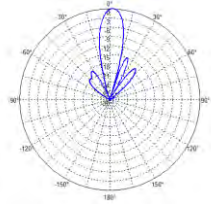
Half-Power Beam Width 45°

Electrical Downtilt $2^\circ - 12^\circ \times 2$
 $2^\circ - 12^\circ \times 4$

Radiation Pattern (617 - 824 MHz)

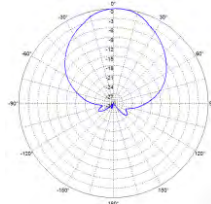


Horizontal Pattern

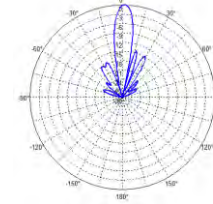


Vertical Pattern

Radiation Patterns (824 - 894 MHz)

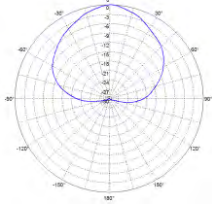


Horizontal Pattern

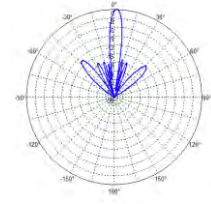


Vertical Pattern

Radiation Pattern (1695 - 1920 MHz)

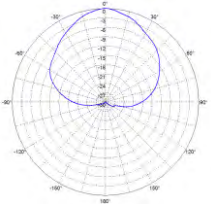


Horizontal Pattern

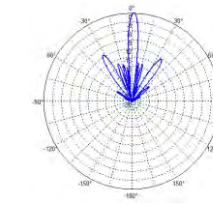


Vertical Pattern

Radiation Patterns (1920 - 2180 MHz)

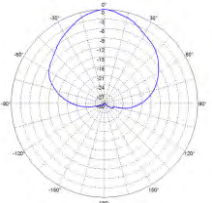


Horizontal Pattern

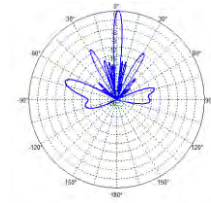


Vertical Pattern

Radiation Pattern (2300 - 2690 MHz)



Horizontal Pattern



Vertical Pattern