

Frequency Range	617-894x2 1695-2690x2 3300-4200x2
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x6

Type DOD8-2A2J2R-RF65

Base Station Antenna

12-ports 617-894 / 617-894 /1695-2690 / 1695-2690/ 3300-4200 / 3300-4200 MHz 65°, 16 /16 /18 /18 /18 /18 dBi, 2°-12° /2°-12° / 2°-12° / 2°-12° / 2°-12° / 2 - 12 °Tilt Antenna With 6 Integrated RCUs.

Electrical Specifications

Frequency Range(MHz)		2x617-894			2x1695-2690				2x3300-4200	
		617-698	698-824	824-894	1695-1920	1920-2180	2300-2400	2490-2690	3300-3800	3800-4200
Polarization		±45°								
Horizontal 3dB Beamwidth(°)		70	65	60	66	63	58	60	68	64
Vertical 3dB Beamwidth(°)		10.5	9	8	7.5	6.5	6	5.5	6.8	6
Gain (dBi)		15.0	15.6	16.1	16.5	17	17.5	17.8	17	17.5
Electrical Downtilt		2°-12°			2°-12°				2°-12°	
Upper Sidelobe Suppression(dB)	First	≥16	≥16	≥16	≥16	≥16	≥16	≥16	≥16	≥16
Front-to-Back Ratio Total Power, ±30° (dB)		≥23	≥24	≥25	≥25	≥25	≥25	≥25	≥25	≥25
Cross polar ratio	Main direction (dB)	≥17	≥17	≥17	≥17	≥17	≥17	≥17	≥17	≥17
	±60° (dB)	≥7	≥7	≥7	≥7	≥7	≥7	≥7	≥7	≥7
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				250 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)	2438 x 499 x 180 / 96.0 x 19.6 x 7.1
Packing Size(mm)/(inches)	2750 x 600 x 310 / 108.3 x 23.6 x 12.2
Weight ,w/o Mounting kit(kg)/(lbs)	38.5 / 84.7
Weight w/ Downtilt Bracket(kg)/(lbs)	44.5 / 97.9
Weight w/ Fixed Bracket(kg)/(lbs)	42.5 / 93.5
Packing Weight (w/ Downtilt Bracket) (kg)/(lbs)	53.5 /117.7
Packing Weight (w/ Fixed Bracket) (kg)/(lbs)	51.5 /113.3
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))	1403/313/1010

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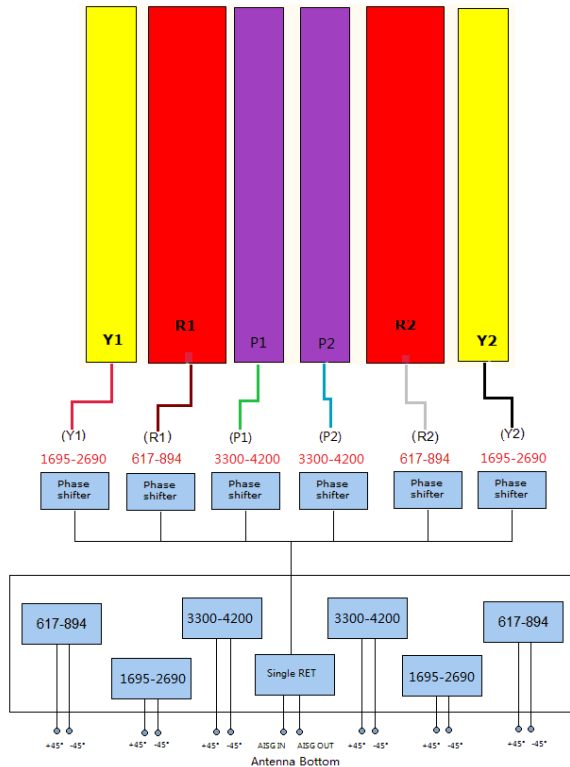
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Integrated RET Properties

RET Type	6x 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

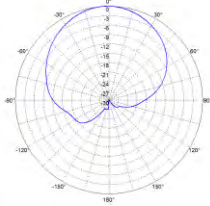


Frequency Range	Array	RET Unique ID
617-894MHz	R1	NDPMXXXXXXXX-6089R1
617-894MHz	R2	NDPMXXXXXXXX-6089R2
1695-2690MHz	Y1	NDPMXXXXXXXX-1727Y1
1695-2690MHz	Y2	NDPMXXXXXXXX-1727Y1
3300-4200MHz	P1	NDPMXXXXXXXX-3342P1
3300-4200MHz	P2	NDPMXXXXXXXX-3342P1

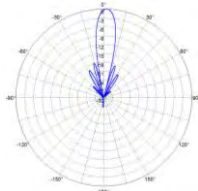
Note: (1) Physical RET Unit containing (6) Single RET

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Polarization	$\pm 45^\circ$
Half-Power Beam Width	65°
Electrical Downtilt	$2^\circ - 12^\circ \times 6$

Radiation Pattern (617 - 824 MHz)

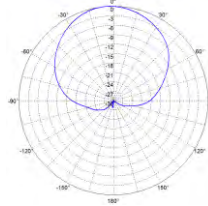


Horizontal Pattern

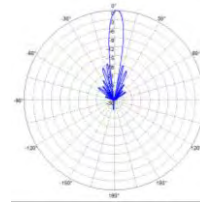


Vertical Pattern

Radiation Patterns (824 - 894 MHz)

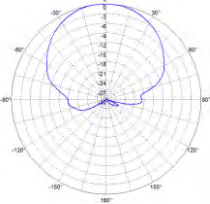


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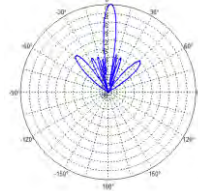


Vertical Pattern

Radiation Pattern (1695 - 2180 MHz)

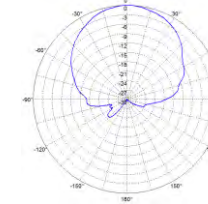


Horizontal Pattern

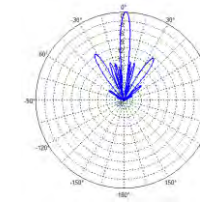


Vertical Pattern

Radiation Patterns (2300 - 2690 MHz)

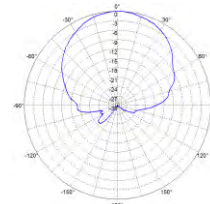


Horizontal Pattern

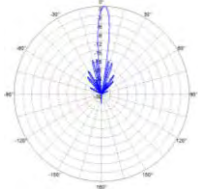


Vertical Pattern

Radiation Pattern (3400 - 3800 MHz)

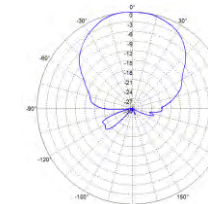


Horizontal Pattern

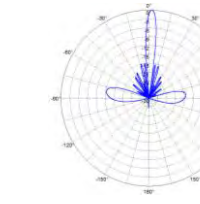


Vertical Pattern

Radiation Pattern (3800 - 4200 MHz)



Horizontal Pattern



Vertical Pattern