

Frequency Range	698-960x2 1695-2690x4
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 14°x2 2° - 12°x4

**Type DOD5-2B4J-RF65**

**Base Station Antenna**

12-ports 698-960 / 698-960 /1695-2690 /1695-2690 /1695-2690 /1695-2690 MHz 65°, 14 / 14 / 18 / 18 / 18 / 18 dBi, 2°-14° / 2°-14° / 2°-12° / 2°-12° / 2°-12° / 2°-12° Tilt Antenna With 6 Integrated RCUs.



**Electrical Specifications**

Frequency Range(MHz)		2x698-960		4x1695-2690		
		698-894	880-960	1695-1920	2300-2400	2490-2690
Polarization		±45°				
Horizontal 3dB Beamwidth(°)		69	59	68	56	60
Vertical 3dB Beamwidth(°)		14.5	12.3	7.0	6.2	5.2
Gain (dBi)		13.7	14.2	16.4	16.7	17.7
Electrical Downtilt		2°-14°		2°-12°		
Upper Sidelobe Suppression(dB)	First	≥16	≥16	≥16	≥16	≥16
Front-to-Back Ratio Total Power, ±30° (dB)		≥25	≥25	≥25	≥25	≥25
Cross polar ratio	Main direction(dB)	≥17	≥17	≥18	≥18	≥18
	±60° (dB)	≥8	≥8	≥8	≥8	≥8
Isolation ports(dB)		≥25				
Isolation Frequency(dB)		≥28				
VSWR		< 1.5				
Intermodulation IM3		< -153 dBc(2x43dBm carrier)				
Impedance		50 Ω				
Max. Power per Input (at 50°C ambient temperature)		500 W		250 W		
Lightning Protection		DC Ground				

**Mechanical Specifications**

Radome Material	Fiberglass
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)	1495 x 480 x 175
Packing Size(mm)/(inches)	1705 x 560 x 275
Weight ,w/o Mounting kit(kg)	26.5
Weight w/ Downtilt Bracket(kg)	31.5
Packing Weight (w/ Downtilt Bracket) (kg)	35.5
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))	920/215/980

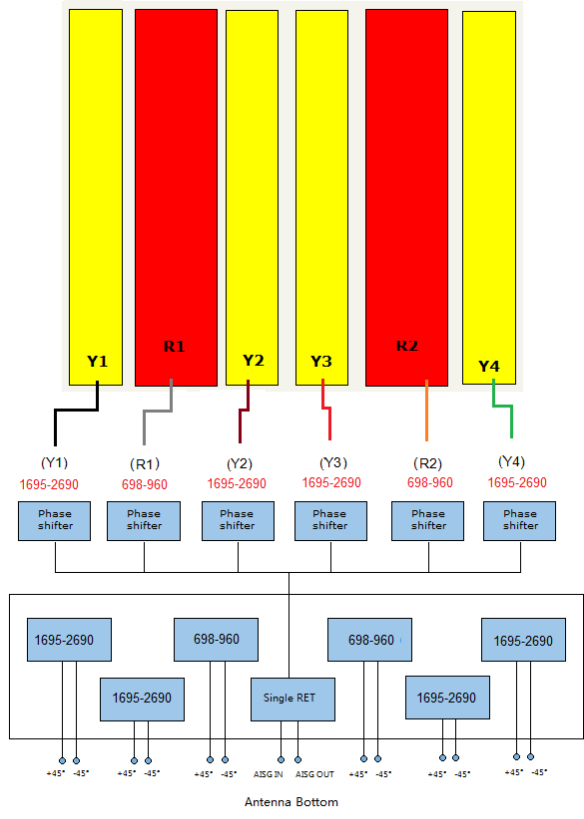
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**Integrated RET Properties**

RET Type	6 x 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**



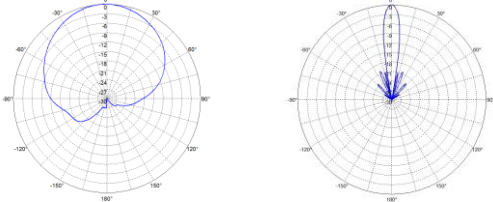
Frequency Range	Array	RET Unique ID
698-960MHz	R1	NDPMXXXXXXXX-7090R1
698-960MHz	R2	NDPMXXXXXXXX-7090R2
1695-2690MHz	Y1	NDPMXXXXXXXX-1727Y1
1695-2690MHz	Y2	NDPMXXXXXXXX-1727Y2
1695-2690MHz	Y3	NDPMXXXXXXXX-1727Y3
1695-2690MHz	Y4	NDPMXXXXXXXX-1727Y4

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

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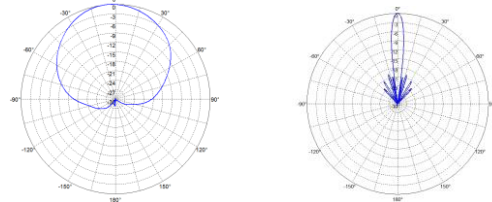
Radiation Pattern (698 - 824 MHz)



Horizontal Pattern

Vertical Pattern

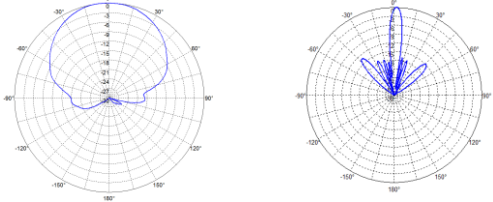
Radiation Patterns (824 - 894 MHz)



Horizontal Pattern

Vertical Pattern

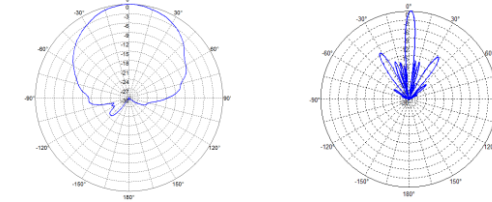
Radiation Pattern (1695 - 2180 MHz)



Horizontal Pattern

Vertical Pattern

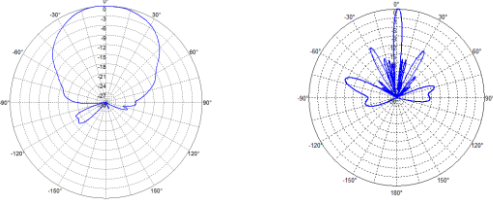
Radiation Patterns (2300 - 2400 MHz)



Horizontal Pattern

Vertical Pattern

Radiation Pattern (2490 - 2690 MHz)



Horizontal Pattern

Vertical Pattern