

Frequency Range	1695-2700x2 3300-4200x2
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x4

Type OCT4-2J2R-RD65

Base Station Antenna

8-ports 1695-2690 /1695-2690 / 3300-4200/ 3300-4200 MHz 65°, 18 /18 /18 /18 dBi, 2°-12° / 2°-12° / 2°-12° / 2°-12° Tilt Antenna
With 4 Integrated RCUs.

Electrical Specifications

Frequency Range(MHz)		2x1695-2690				2x3300-4200	
		1695-1920	1920-2180	2300-2400	2490-2690	3300-3800	3800-4200
Polarization		±45°					
Horizontal 3dB Beamwidth(°)		66	63	58	60	66	58
Vertical 3dB Beamwidth(°)		7.5	6.5	6	5.5	6.8	6.0
Gain (dBi)		16.5	17	17.5	17.8	17	17.5
Electrical Downtilt		2°-12°				2°-12°	
Upper Sidelobe Suppression(dB)	First	≥16	≥16	≥16	≥16	≥16	≥16
Front-to-Back Ratio Total Power,±30° (dB)		≥25	≥25	≥25	≥25	≥25	≥25
Cross polar ratio	Main direction (dB)	≥17	≥17	≥17	≥17	≥17	≥17
	±60° (dB)	≥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 temperature)		200 W					
Lightning Protection		DC Ground					



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)	1390x 300 x 146 /54.7x11.8x5.7
Packing Size(mm)/(inches)	1605 x 390 x 250/63.2x15.4x9.8
Weight ,w/o Mounting kit(kg)/(lbs)	20 / 44
Weight w/ Downtilt Bracket(kg)/(lbs)	26 / 57.2
Weight w/ Fixed Bracket(kg)/(lbs)	24 / 52.8
Packing Weight (w/ Downtilt Bracket) (kg)/(lbs)	35 / 77
Packing Weight (w/ Fixed Bracket) (kg)/(lbs)	33 / 72.6
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))	266/52/402

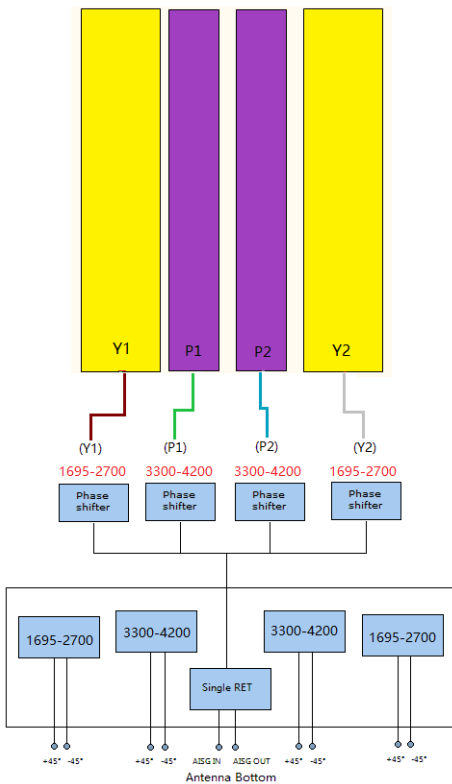
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Integrated RET Properties

RET Type	4 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



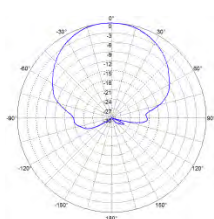
Frequency Range	Array	RET Unique ID
1695-2690MHz	Y1	NDPMXXXXXXXX-1727Y1
1695-2690MHz	Y2	NDPMXXXXXXXX-1727Y2
3300-4200MHz	P1	NDPMXXXXXXXX-3342P1
3300-4200MHz	P2	NDPMXXXXXXXX-3342P2

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

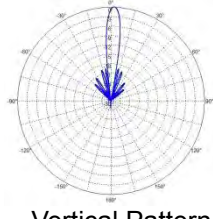
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Radiation Pattern (1695 - 2180 MHz)



Horizontal Pattern

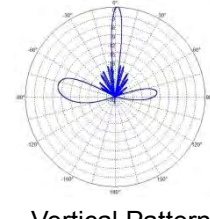


Vertical Pattern

Radiation Patterns (2300 - 2690 MHz)

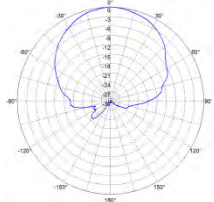


Horizontal Pattern

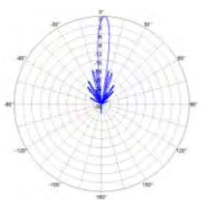


Vertical Pattern

Radiation Pattern (3300 - 3800 MHz)

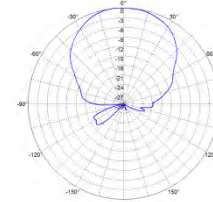


Horizontal Pattern

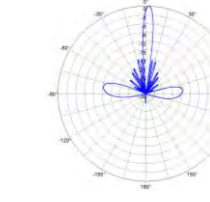


Vertical Pattern

Radiation Pattern (3800 - 4200 MHz)



Horizontal Pattern



Vertical Pattern