

Type OCT5-2B2H-RD65

Frequency Range	694-960x2 1427-2690x2
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x4

Base Station Antenna

8-ports 694-960/694-960/1427-2690 / 1427-2690 MHz 65°, 15/15/18/18 dBi, 2°-12°/2°-12°/2°- 12°/ 2°- 12°Tilt Antenna
With 4 Integrated RCUs.



Electrical Specifications

Frequency Range(MHz)		2X694-960			2x1427-2690				
		694-806	790-894	880-960	1427-1510	1710-1920	1920-2170	2300-2490	2490-2690
Polarization		±45°							
Horizontal 3dB Beamwidth(°)		69±3.6	67±3.6	65±3.6	70±5	67±4	65±3	58±4	60±4
Vertical 3dB		15.6±0.8	13.2±0.9	12.3±0.9	9.0±0.8	7.5±0.8	6.5±0.6	6±0.6	5.5±0.6
Gain (dBi)		14±0.5	14.3±0.4	14.8±0.5	15.5±0.5	16.5±0.5	17.0±0.5	17.5±0.5	17.8±0.5
Electrical Downtilt		2°-12°			2°-12°				
Upper Sidelobe Suppression(dB)	First	≥15	≥15	≥15	≥16	≥16	≥16	≥16	≥16
Front-to-Back Ratio Total Power, ±30° (dB)		≥26	≥26	≥27	≥25	≥25	≥25	≥25	≥25
Cross polar ratio	Main direction(dB)	≥16	≥16	≥16	≥17	≥17	≥17	≥17	≥17
	±60° (dB)	≥8	≥8	≥8	≥7	≥7	≥7	≥7	≥7
Isolation ports		≥28 dB							
Isolation Frequency		≥30 dB							
VSWR		< 1.5							
Intermodulation IM3		< -153 dBc(2x43dBm carrier)							
Impedance		50 Ω							
Max. Power per Input (at 50°C ambient		500 W			250 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)	1499 x 499 x 180
Packing Size(mm)	1679 x 620 x 325
Weight ,w/o Mounting kit(kg)	30
Weight w/ Downtilt Bracket(kg)	26
Packing Weight (w/ Downtilt Bracket) (kg)	32
Max. Wind Velocity(mph)	150
Mounting hardware	Φ 50 mm ~ Φ 115 mm
Operational Temperature(°C)	-40 to +70
Operational Humidity(%)	<95
Wind Load at 100km/h (Frontal/lateral/Rearside(N))	520/270/585

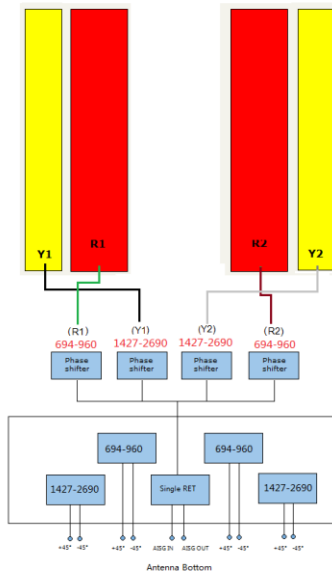
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Integrated RET Properties

RET Type	4 x Type 1 Single RET	
Protocols	Compliant to AISG 3.0/3GPP	
Input voltage range	+10~+30VDC(pin 6)	
Power consumption	<2W(stand by);<10W(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	

COMPREHESIVE TILT CONFIGURATION



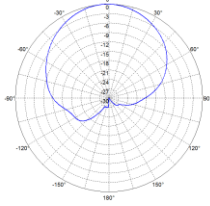
Frequency Range	Array	RET Unique ID
694-960MHz	R1	NDPMXXXXXXXX-7090R1
694-960MHz	R2	NDPMXXXXXXXX-7090R2
1427-2690MHz	Y1	NDPMXXXXXXXX-1427Y1
1427-2690MHz	Y2	NDPMXXXXXXXX-1427Y2

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

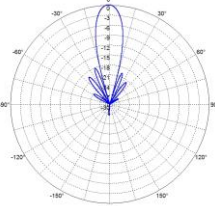
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Radiation Pattern (694 - 824 MHz)

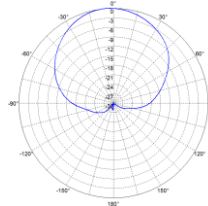


Horizontal Pattern

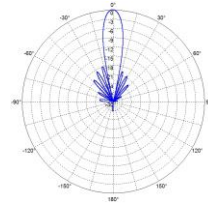


Vertical Pattern

Radiation Patterns (824 - 960 MHz)

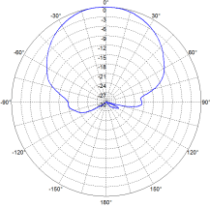


Horizontal Pattern

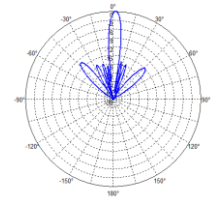


Vertical Pattern

Radiation Pattern (1427 - 2200 MHz)

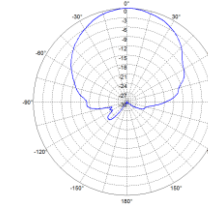


Horizontal Pattern

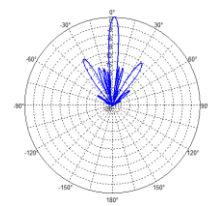


Vertical Pattern

Radiation Patterns (2490 - 2690 MHz)



Horizontal Pattern



Vertical Pattern