

Type OCT8-1B3J-RD65

Frequency Range	690-960x1 1710-2690x3
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x4

Base Station Antenna

8-ports 690-960 / 1710-2690 / 1710-2690/1710-2690 MHz 65°, 17 / 17 / 17 / 17dBi, 2°-12° / 2°- 12° / 2°- 12° / 2°- 12°
Tilt Antenna With 4 Integrated RCUs.

Electrical Specifications



Frequency Range(MHz)		690-960			3X1710-2690				
		690-806	790-894	880-960	1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Polarization		±45°							
Horizontal 3dB Beamwidth(°)		68±3.6	66±3.6	64±3.6	68±6.5	66±6.1	64±6.1	62±5.1	62±5.9
Vertical 3dB Beamwidth(°)		8.4±0.8	7.8±0.9	7.2±0.9	6.8±0.6	6.3±0.5	5.9±0.5	5.2±0.4	4.8±0.6
Gain (dBi)		16.0±0.5	16.4±0.5	16.8±0.5	16.4±0.6	16.8±0.5	17.0±0.5	17.4±0.6	17.4±0.6
Electrical Downtilt		2°-12°			2°-12°				
Upper Sidelobe Suppression(dB)	First	≥16	≥16	≥16	≥16	≥16	≥16	≥16	≥16
Front-to-Back Ratio Total Power, ±30° (dB)		≥25	≥25	≥25	≥25	≥25	≥25	≥26	≥26
Cross polar ratio	Main direction(dB)	≥18	≥18	≥18	≥16	≥16	≥16	≥17	≥17
	±60° (dB)	≥8	≥8	≥8	≥6	≥7	≥7	≥5	≥5
Isolation ports		≥26 dB			≥26 dB				
Isolation Frequency		≥28 dB							
VSWR		< 1.5							
Intermodulation IM3		< -153			< -153				
Impedance		50 Ω			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)/(inches)	2499 x 399 x 159
Packing Size(mm)/(inches)	2679 x 475 x 279
Weight ,w/o Mounting kit(kg)/(lbs)	29.5
Weight w/ Downtilt Bracket(kg)/(lbs)	36.5
Packing Weight (w/ Downtilt Bracket) (kg)/(lbs)	42.5
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 150km/h (Frontal/lateral/Rearside(N))	915/450/1025

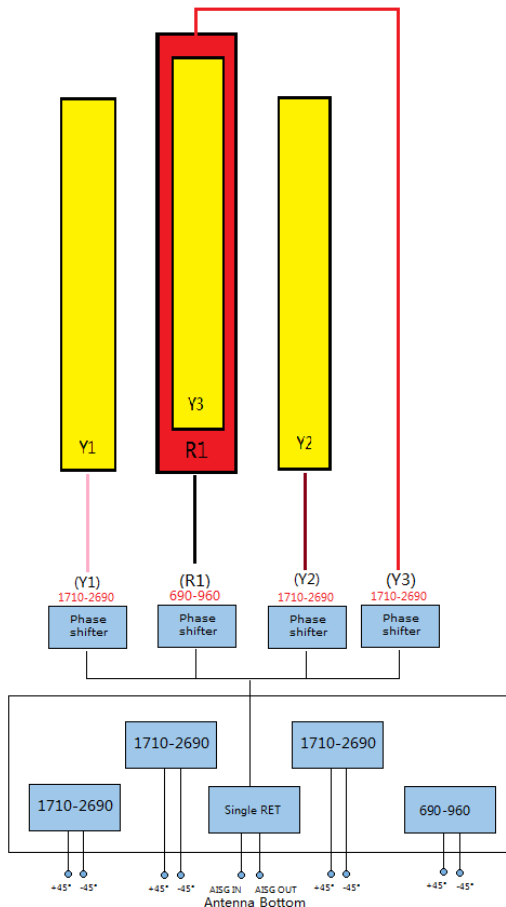
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Integrated RET Properties

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



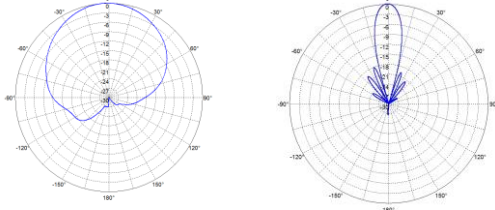
Frequency Range	Array	RET Unique ID
690-960MHz	R1	NDPMXXXXXXXX-7090R1
1710-2690MHz	Y1	NDPMXXXXXXXX-1727Y1
1710-2690MHz	Y2	NDPMXXXXXXXX-1727Y2
1710-2690MHz	Y3	NDPMXXXXXXXX-1727Y3

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

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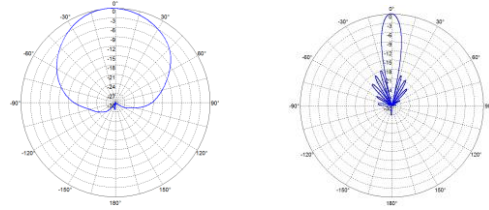
Radiation Pattern (690 - 894 MHz)



Horizontal Pattern

Vertical Pattern

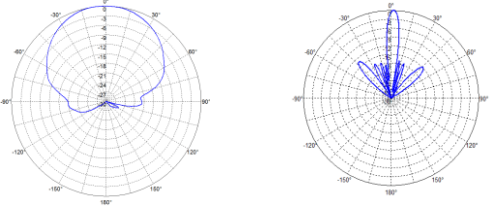
Radiation Patterns (894 - 960 MHz)



Horizontal Pattern

Vertical Pattern

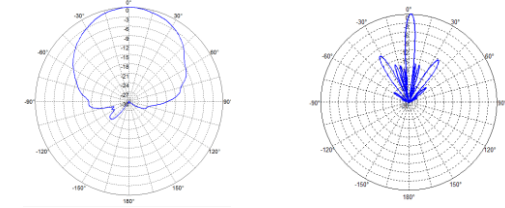
Radiation Pattern (1710 - 2200 MHz)



Horizontal Pattern

Vertical Pattern

Radiation Patterns (2490 - 2690 MHz)



Horizontal Pattern

Vertical Patter