

Frequency Range	698-790x1
	824-896x1
	1695-2360x2
Polarization	±45°
Half-Power Beam Width	33°
Electrical Downtilt	2° - 12°x4

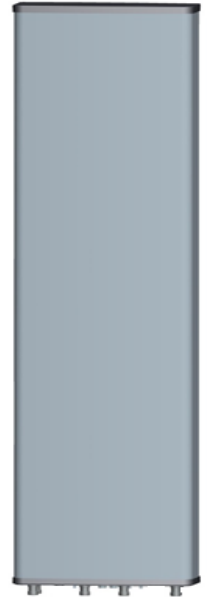
Type OCT8-1BA1BB2K-RD33

Base Station Antenna

8-ports 698-790/824-896 / 1695-2360 / 1695-2360 MHz 33°, 18 / 25 dBi, 2°-12°/ 2°-12°/ 2°-12°/ 2°-12°Tilt Antenna
With 4 Integrated RCUs.

Electrical Specifications

Frequency Range(MHz)		698-790	824-896	2x1695-2360		
		790-894	824-896	1695-1920	1920-2180	2200-2360
Polarization		±45°				
Horizontal 3dB Beamwidth(°)		35±4	33±3	38±4	35±3	33±2
Vertical 3dB Beamwidth(°)		9±0.9	8.5±0.6	7.8±0.9	6.7±0.6	6±0.6
Gain (dBi)		17.8±0.5	18.3±0.5	19±0.5	19.5±0.5	20±0.5
Electrical Downtilt		2°-12°		2°-12°		
Upper Sidelobe Suppression(dB)	First	≥16	≥16	≥16	≥16	≥16
Front-to-Back Ratio Total Power,±30° (dB)		≥26	≥27	≥27	≥27	≥27
Cross polar ratio	Main direction(dB)	≥17	≥17	≥17	≥17	≥17
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)		500 W		300 W		
Lightning Protection		DC Ground				



Mechanical Specifications

Redome 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)	2500 x 499 x 180
Packing Size(mm)	2800 x 620 x 325
Weight ,w/o Mounting kit(kg)	41.5
Weight w/ Downtilt Barcket(kg)	46.5
Packing Weight (w/ Downtilt Barcket) (kg)	54.5
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))	1451/286/1046

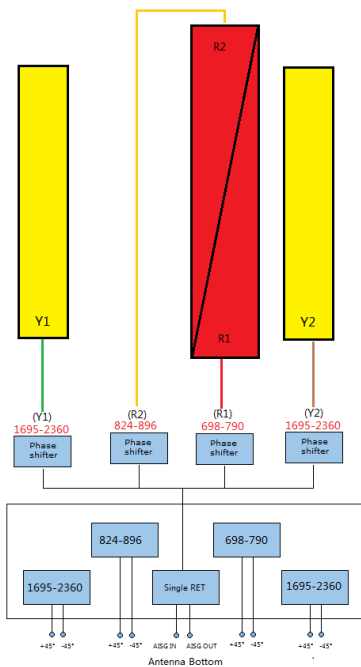
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Integrated RET Properties

RET Type	4x 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

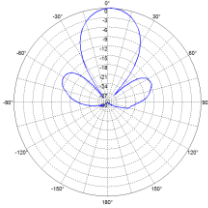


Frequency Range	Array	RET Unique ID
698-790MHz	R1	NDPMXXXXXXXX-7090R1
824-896MHz	R2	NDPMXXXXXXXX-8090R1
1695-2360MHz	Y1	NDPMXXXXXXXX-1724Y1
1695-2360MHz	Y2	NDPMXXXXXXXX-1724Y1

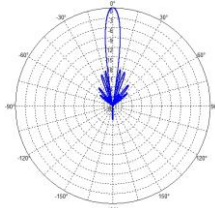
Note: (1) Physical RET Unit
containing (4) Single RET

Frequency Range	698-790x1
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	1695-2360x2
Polarization	$\pm 45^\circ$
Half-Power Beam Width	33°
Electrical Downtilt	$2^\circ - 12^\circ \times 4$

Radiation Pattern (698 - 790 MHz)

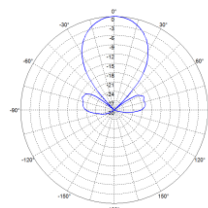


Horizontal Pattern

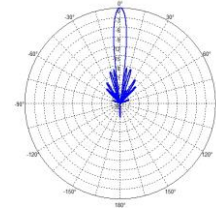


Vertical Pattern

Radiation Patterns (824 - 896 MHz)

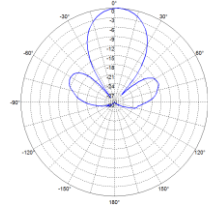


Horizontal Pattern

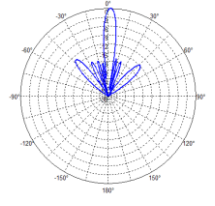


Vertical Pattern

Radiation Pattern (1695 - 2180 MHz)

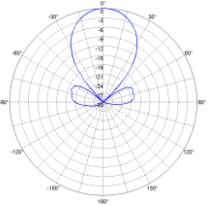


Horizontal Pattern

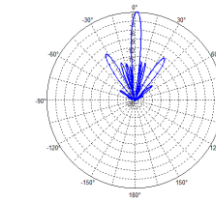


Vertical Pattern

Radiation Patterns (2200 - 2360 MHz)



Horizontal Pattern



Vertical Pattern