

Frequency Range	2x617-894 2x1695-2690
Polarization	±45°
Half-Power Beam Width	45°
Electrical Downtilt	2° - 12°

Type OCT8-2LX2HX-BR45

Base Station Antenna

8-ports 617-894 /617-894 /1695-2690 /1695-2690 MHz 45°, 16.5 / 16.5 / 18/ 18dBi, 2°-12°/2°-12°/ 2°-12°/ 2°-12°
Tilt Antenna With 4 Integrated RCUs.

Electrical Specifications

Frequency Range(MHz)		2 x 617-894			2x1695-2690			
		617-698	698-824	824-894	1695-1920	1920-2180	2300-2400	2490-2690
Polarization		±45°						
Horizontal 3dB Beamwidth(°)		50	46	42	48	45	41	38
Vertical 3dB Beamwidth(°)		10.4	9.1	8.0	7.5	6.5	6	5.5
Gain (dBi)		15.6	16.0	16.6	17.0	17.5	18.0	18.3
Electrical Downtilt		2°-12°			2°-12°			
Upper Sidelobe Suppression(dB)	First	≥16	≥16	≥16	≥16	≥16	≥16	≥16
Front-to-Back Ratio Total Power, ± 30° (dB)		≥25	≥25	≥25	≥25	≥25	≥25	≥25
Cross polar ratio	Main direction(dB)	≥16	≥16	≥16	≥16	≥16	≥16	≥16
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

Radome Material	Fiber Glass
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)	2438 x 499 x 180 / 95.9 x 19.6 x 7.1
Packing Size(mm)/(inches)	2750 x 620 x 325 / 108.3 x 24.4 x 12.8
Weight ,w/o Mounting kit(kg)/(lbs)	47.5 / 104.5
Weight,with Mounting kit(kg)/(lbs)	53.5 / 117.7
Packing Weight(kg)/(lbs)	63.5 / 139.7
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))	1416/280/1027

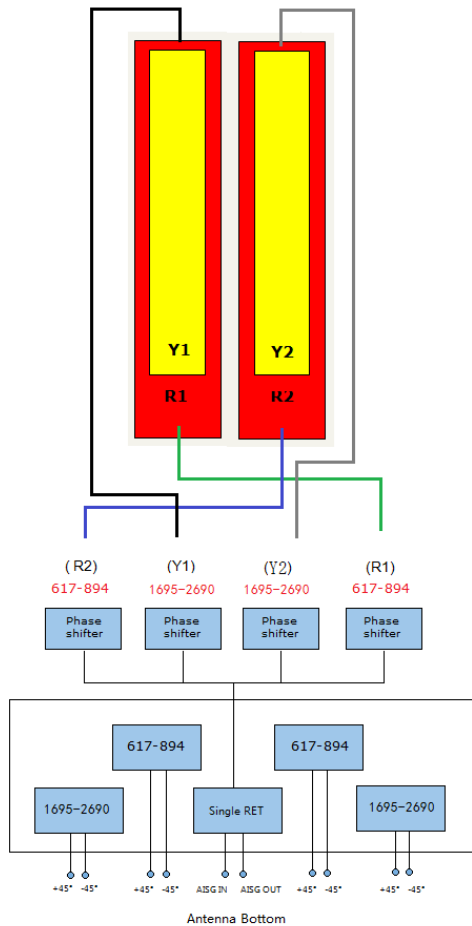
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Integrated RET Properties

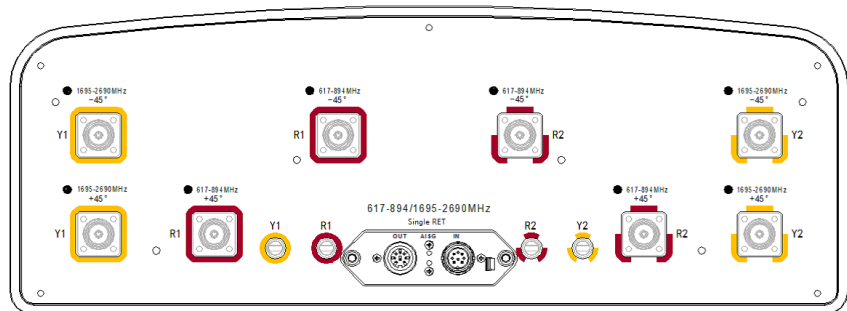
Protocols	Compliant to AISG 2.0/3GPP	
Input voltage range	+10~+30VDC(pin 6)	
Power consumption	<2W(stand by);<13W(motor activated)	
Connectors	AISG	2 x 8 pin connector acc. To IEC 60130-9 Acc.to AISG Daisy chain in:male Daisy chain out:female
	Antenna	Two motor shaft(Embedded motor)
Hardware interface	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
617-894MHz	R1	NDPMXXXXXXXX-6089R1
617-894MHz	R2	NDPMXXXXXXXX-6089R2
1695-2690MHz	Y1	NDPMXXXXXXXX-1727Y1
1695-2690MHz	Y2	NDPMXXXXXXXX-1727Y2

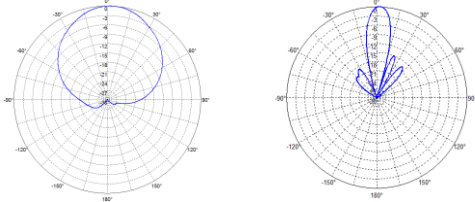
Note: (1) Physical RET Unit containing (4) Single RET



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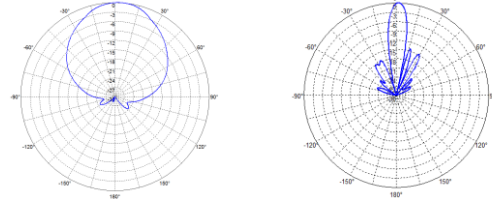
Radiation Pattern (617 - 824 MHz)



Horizontal Pattern

Vertical Pattern

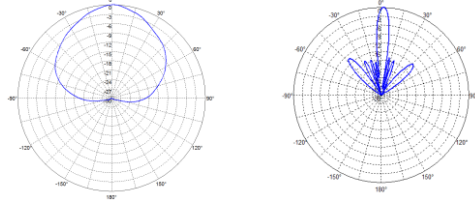
Radiation Patterns (824 - 894 MHz)



Horizontal Pattern

Vertical Pattern

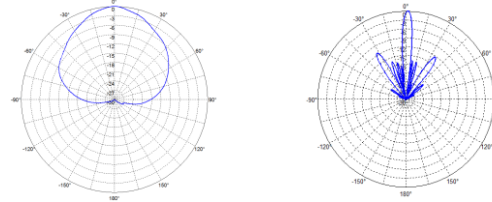
Radiation Pattern (1695 - 1920 MHz)



Horizontal Pattern

Vertical Pattern

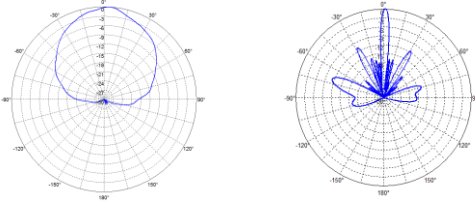
Radiation Patterns (1920 - 2180 MHz)



Horizontal Pattern

Vertical Pattern

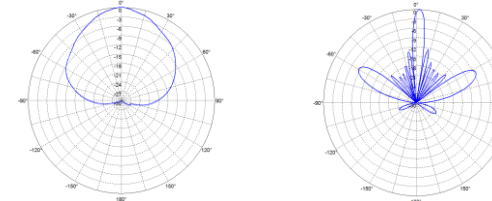
Radiation Pattern (2180 - 2400 MHz)



Horizontal Pattern

Vertical Pattern

Radiation Pattern (2490 - 2690 MHz)



Horizontal Pattern

Vertical Pattern