

Type OCT8-2LX2HX-BR90

Base Station Antenna

8-ports 617-894 / 824-894 / 1695-2690/1695-2690 MHz $65^\circ/90^\circ/65^\circ/65^\circ$, 16 / 14.5 / 18 / 18 dBi, $2^\circ-12^\circ/2^\circ-12^\circ/2^\circ-12^\circ/2^\circ-12^\circ$ Tilt Antenna With 4 Integrated RCUs.

Electrical Specifications



Frequency Range(MHz)		617-894			824-894
		617-698	698-824	824-894	824-894
Polarization		$\pm 45^\circ$			
Horizontal 3dB Beamwidth($^\circ$)		70	63	60	82
Vertical 3dB Beamwidth($^\circ$)		10.4	9.1	8.0	8.0
Gain (dBi)		15.0	15.5	16.0	14.5
Electrical Downtilt		$2^\circ-12^\circ$			$2^\circ-12^\circ$
Upper Sidelobe Suppression(dB)	First	≥ 16	≥ 16	≥ 16	≥ 16
Front-to-Back Ratio Total Power, $\pm 30^\circ$ (dB)		≥ 23	≥ 24	≥ 25	≥ 23
Cross polar ratio	Main direction(dB)	≥ 17	≥ 17	≥ 17	≥ 16
	$\pm 60^\circ$ (dB)	≥ 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)		500 W			500 W
Lightning Protection		DC Ground			

Frequency Range(MHz)		2x1695-2690			
		1695-1920	1920-2180	2300-2400	2400-2690
Polarization		$\pm 45^\circ$			
Horizontal 3dB Beamwidth($^\circ$)		66	63	58	60
Vertical 3dB Beamwidth($^\circ$)		7.5	6.5	6	5.5
Gain (dBi)		16.5	17.0	17.5	17.8
Electrical Downtilt		$2^\circ-12^\circ$			
Upper Sidelobe Suppression(dB)	First	≥ 16	≥ 16	≥ 16	≥ 16
Front-to-Back Ratio Total Power, $\pm 30^\circ$ (dB)		≥ 25	≥ 25	≥ 25	≥ 25
Cross polar ratio	Main direction(dB)	≥ 17	≥ 17	≥ 17	≥ 17
	$\pm 60^\circ$ (dB)	≥ 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)		300 W			
Lightning Protection		DC Ground			

Frequency Range	617-894
	824-894
	1695-2690x2
Polarization	±45°
Half-Power Beam Width	65°/90°/65°x2
Electrical Downtilt	2° - 12°x4

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Mechanical Specifications

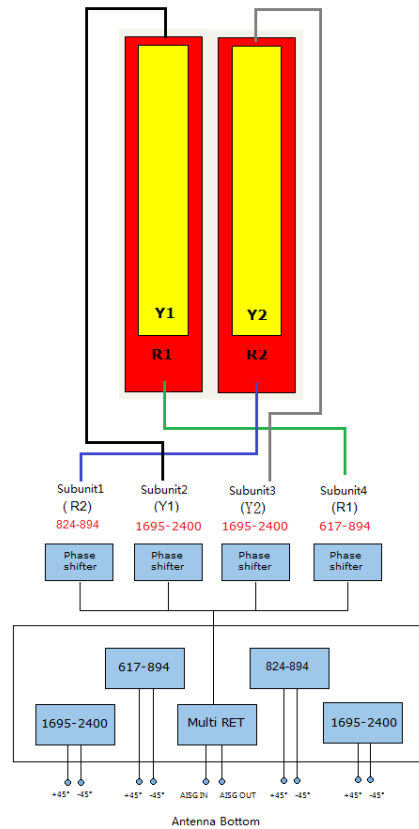
Redome Material	FiberGlass
Connector Type and Location	4.3-10x8 ,Bottom iRCU in:1 x 8 pin male iRCU out:1 x 8 pin female
Dimensions,HxWxD(mm)/(inches)	2438 x 499 x 180 / 95.9 x 19.6x 7.1
Packing Size(mm)/(inches)	2750 x 620 x 325 / 108.3 x 24.4 x 12.8
Weight ,w/o Mounting kit(kg)/(lbs)	47 / 103.4
Weight,with Mounting kit(kg)/(lbs)	53 / 116.6
Packing Weight(kg)/(lbs)	63 / 138.6
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))	1416/280/1027

Integrated RET Properties

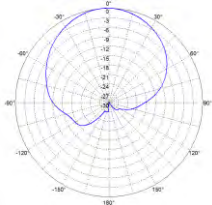
Protocols		Compliant to AISG 2.0/3GPP
Input voltage range		+10~+30VDC(pin 6)
Power consumption		<2W(stand by);<13W(motor activated)
Connectors	AISG	2 x 8 pin connector acc. To IEC 60130-9 Acc.to AISG Daisy chain in: male Daisy chain out: female
	Antenna	Two motor shaft(Embedded motor)
Hardware interface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

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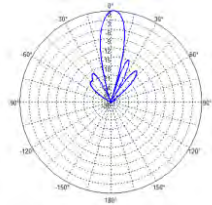
COMPREHENSIVE TILT CONFIGURATION



Radiation Pattern (617 - 824 MHz)

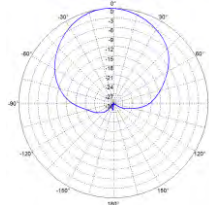


Horizontal Pattern

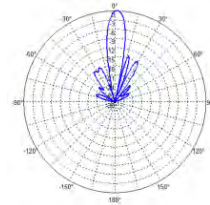


Vertical Pattern

Radiation Patterns (824 - 894 MHz)

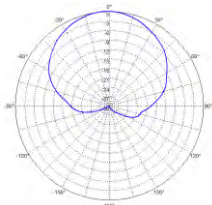


Horizontal Pattern

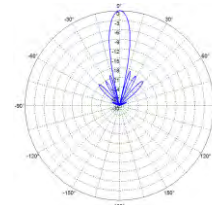


Vertical Pattern

Radiation Pattern (1695 - 1920 MHz)

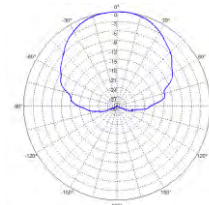


Horizontal Pattern

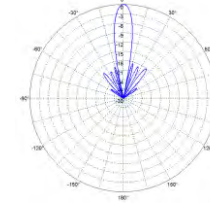


Vertical Pattern

Radiation Patterns (1920 - 2180 MHz)



Horizontal Pattern

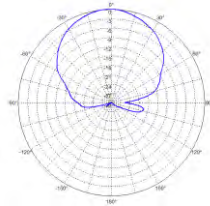


Vertical Pattern

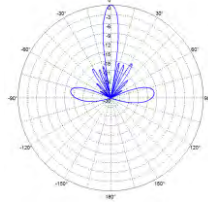
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Radiation Pattern (2300 - 2400 MHz)

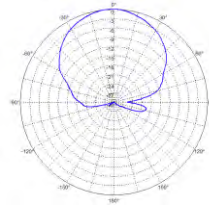


Horizontal Pattern

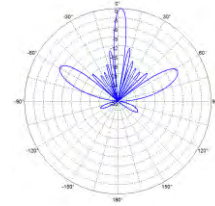


Vertical Pattern

Radiation Pattern (2400 - 2690 MHz)

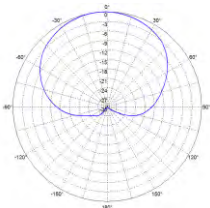


Horizontal Pattern

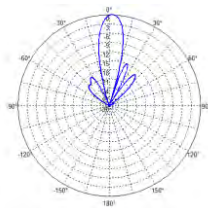


Vertical Pattern

Radiation Pattern (824 - 894 MHz)



Horizontal Pattern



Vertical Pattern