

Frequency Range	617-894 1695-2400x2
Polarization	±45°
Half-Power Beam Width	90°
Electrical Downtilt	2° - 12°x3

Type HEX8-1LX2HX-BW90

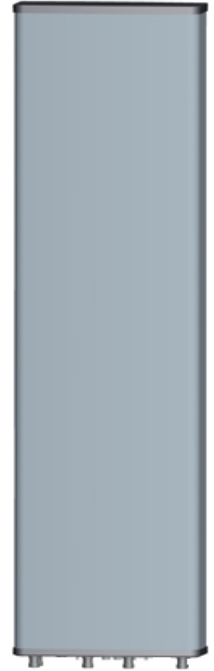
Base Station Antenna

6-ports 617-894 / 1695-2400 / 1695-2400 MHz 90°, 15 / 17 / 17 dBi, 2°-12° / 2°-12° / 2°-12° / Tilt Antenna
With 3 Integrated RCUs.



Electrical Specifications

Frequency Range(MHz)		617-894			2x 1695-2400		
		617-698	698-824	824-894	1695-1920	1920-2180	2300-2400
Polarization		±45°					
Horizontal 3dB Beamwidth(°)		88	83	78	88	83	78
Vertical 3dB Beamwidth(°)		10.4	9.1	8.0	5.5	5	4.3
Gain (dBi)		14.1	14.6	15.0	16.6	17.0	17.1
Electrical Downtilt		2°-12°			2°-12°		
Upper Sidelobe Suppression(dB)	First	≥16	≥16	≥16	≥16	≥16	≥16
Front-to-Back Ratio Total Power, ± 30° (dB)		≥23	≥23	≥23	≥23	≥23	≥23
Cross polar ratio	Main direction(dB)	≥17	≥17	≥17	≥17	≥17	≥17
	± 60° (dB)	≥8	≥8	≥8	≥8	≥8	≥8
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	FiberGlass
Connector Type and Location	4.3-10x6 ,Bottom iRCU in:1 x 8 pin male iRCU out:1 x 8 pin female
Dimensions,HxWxD(mm)/(inches)	2438 x 400 x 180 / 96.0 x 15.7 x 7.1
Packing Size(mm)/(inches)	2660 x 501 x 311 / 104.7 x 19.7 x 12.2
Weight ,w/o Mounting kit(kg)/(lbs)	34 / 74.8
Weight w/ Downtilt Bracket(kg)/(lbs)	41 / 90.2
Weight w/ Fixed Bracket(kg)/(lbs)	39 / 85.8
Packing Weight (w/ Downtilt Bracket) (kg)/(lbs)	47 / 103.4
Packing Weight (w/ Fixed Bracket) (kg)/(lbs)	45 / 99
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))	1121/311/812

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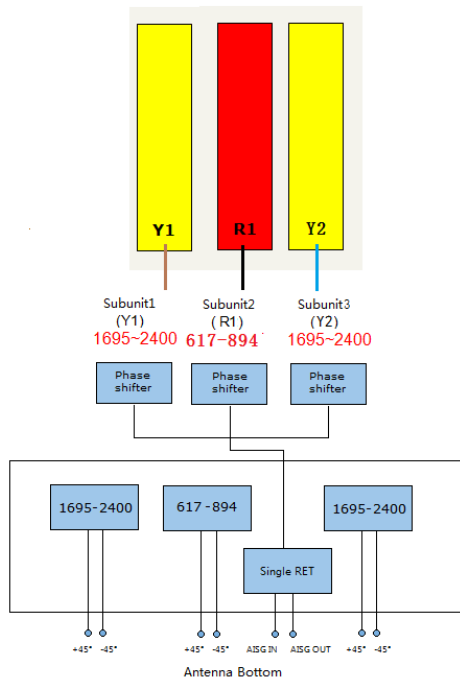
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Integrated RET Properties

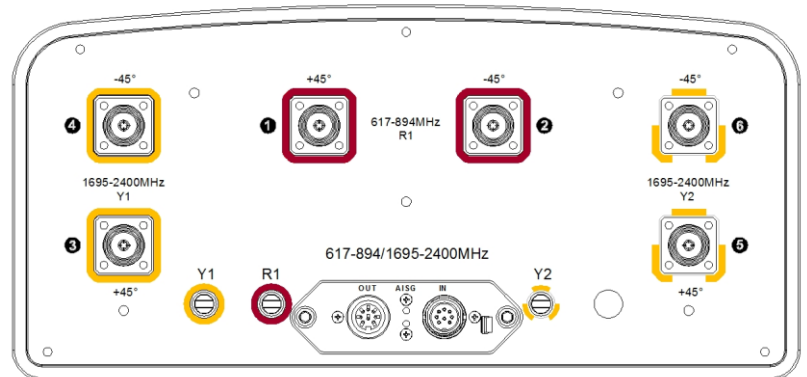
RET Type	3x Type 1 Single RET	
Protocols	Compliant to AISG 2.0/3GPP	
Input voltage range	+10~+30VDC(pin 6)	
Power consumption	<2W(stand by);<13W(motor activated)	
Connectors	AISG	2 x 8 pin connector acc. To IEC 60130-9 Acc.to AISG Daisy chain in:male Daisy chain out:female
	Antenna	Two motor shaft(Embedded 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
617-894MHz	R1	NDPMXXXXXXXX-6089R1
1695-2400MHz	Y1	NDPMXXXXXXXX-1724Y1
1695-2400MHz	Y2	NDPMXXXXXXXX-1724Y2



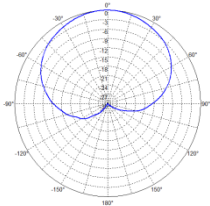
Note: (1) Physical RET Unit containing (3) Single RET



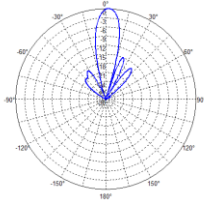
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Frequency Range	617-894 1695-2400x2
Polarization	$\pm 45^\circ$
Half-Power Beam Width	90°
Electrical Downtilt	2° - 12°x3

Radiation Pattern (617 - 824 MHz)

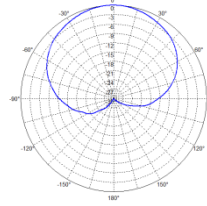


Horizontal Pattern

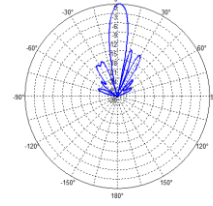


Vertical Pattern

Radiation Patterns (824 - 894 MHz)

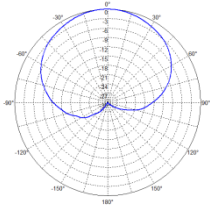


Horizontal Pattern

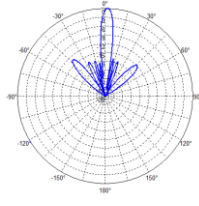


Vertical Pattern

Radiation Pattern (1695 - 1920 MHz)

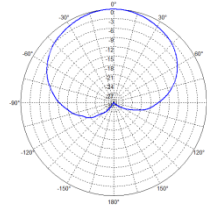


Horizontal Pattern

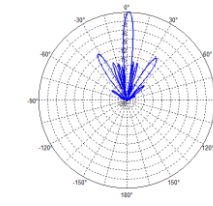


Vertical Pattern

Radiation Patterns (1920 - 2180 MHz)

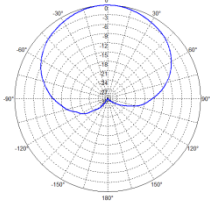


Horizontal Pattern

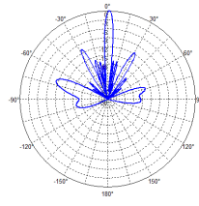


Vertical Pattern

Radiation Pattern (2180 - 2400 MHz)



Horizontal Pattern



Vertical Pattern