

Frequency Range	617-894x2 1695-2690x4
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x6

Type DOD8-2LX4HX-BR65

Base Station Antenna

12-ports 617-894 / 617-894 / 1695-2690 / 1695-2690 / 1695-2690 / 1695-2690 MHz 65°, 16.5 / 16.5 / 18.5 / 18.5 / 18.5 / 18.5 dBi, 2°-12° / 2°-12° / 2°-12° / 2 - 12° / 2°-12° / 2 - 12° Tilt Antenna With 3 Integrated RCUs.



Electrical Specifications

Frequency Range(MHz)		2x617-894		4x1695-2690				
		617-698	698-894	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690
Polarization		±45°						
Horizontal 3dB Beamwidth(°)		68	62	66	65	62	58	60
Vertical 3dB Beamwidth(°)		10.3	8.7	5.7	5.5	5.1	4.5	4.1
Gain (dBi)		16	16.3	17.5	18	18.5	18.5	18.6
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)		≥23	≥24	≥25	≥25	≥25	≥25	≥25
Isolation ports		≥25dB						
Isolation Frequency		≥28dB						
VSWR		< 1.5						
Intermodulation IM3 dBc (2x43dBm carrier)		< -150	< -153	< -153				
Impedance		50 Ω						
Max. Power per Input (at 50°C ambient temperature)		500 W		200 W				
Lightning Protection		DC Ground						



Electrical Specifications,BASTA

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		617-698	698-894	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690
Polarization		±45°						
Beamwidth, Horizontal Tolerance (°)		±4	±5.5	±3.2	±3.9	±6.1	±5.8	±6.3
Beamwidth, Vertical Tolerance (°)		±0.6	±1.2	±0.3	±0.4	±0.4	±0.3	±0.3
Gain by all Beam Tilts, average, (dBi)		15.5	15.8	17.3	17.7	18.2	18.2	18.2
Gain by all Beam Tilts, Tolerance, (dB)		±0.5	±0.6	±0.3	±0.4	±0.6	±0.4	±0.5
Gain by all Beam Tilt, average (dBi)		2 15.4	2 15.7	2 17.4	2 17.7	2 18	2 18.1	2 18.1
		7 15.7	7 16	7 17.5	7 17.8	7 18.3	7 18.5	7 18.5
		12 15.6	12 15.6	12 17.2	12 17.6	12 18.2	12 18.1	12 18.0
Front-to-Back Ratio Total Power, ±30° (dB)		≥23	≥24	≥25	≥25	≥25	≥25	≥25
Cross polar ratio	Main direction(dB)	≥17	≥17	≥17	≥17	≥17	≥17	≥17
	±60° (dB)	≥7	≥7	≥7	≥7	≥7	≥7	≥7

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Mechanical Specifications

Radome Material	ASA
Connector Type and Location	4.3-10x12 ,Bottom iRCU in:1 x 8 pin male iRCU out:1 x 8 pin female
Dimensions,HxWxD(mm)/(inches)	2438 x 533 x 160 / 96.0 x 21.0x 6.3
Packing Size(mm)/(inches)	2750 x 655 x 305 / 108.3 x 25.8 x 12.0
Weight ,w/o Mounting kit(kg)/(lbs)	40 / 88
Weight w/ Downtilt Bracket(kg)/(lbs)	47 / 103.4
Weight w/ Fixed Bracket(kg)/(lbs)	45 / 99
Packing Weight (w/ Downtilt Bracket) (kg)/(lbs)	57 / 125.4
Packing Weight (w/ Fixed Bracket) (kg)/(lbs)	55 / 121
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))	1502/278/1081

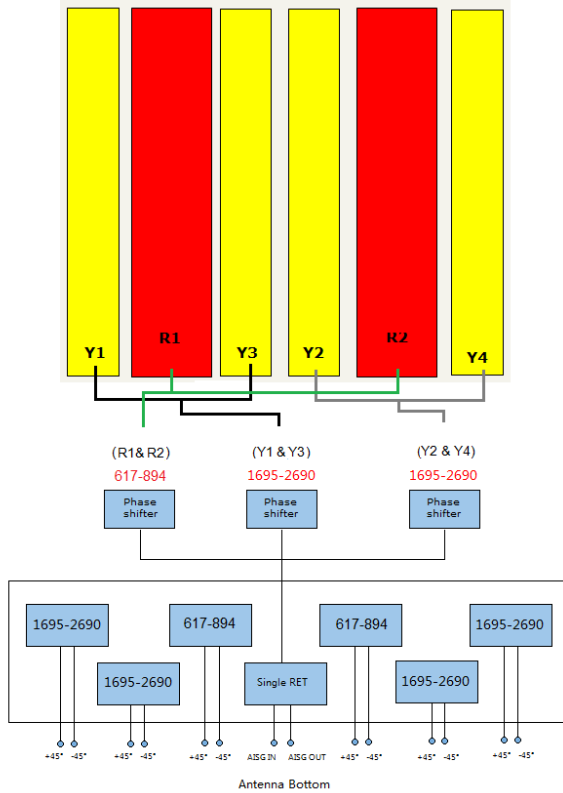
Integrated RET Properties

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

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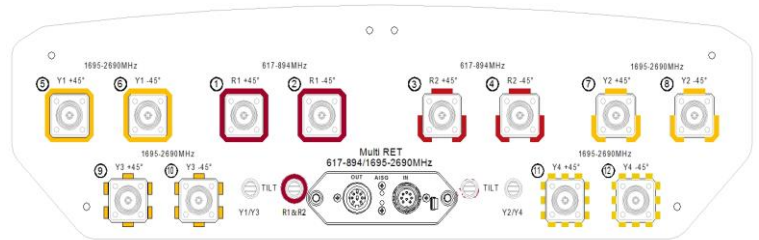
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COMPREHENSIVE TILT CONFIGURATION



Frequency Range	Array	RET Unique ID
617-894MHz	R1/R2	NDPMXXXXXXXX-6089R1
1695-2690MHz	Y1/Y3	NDPMXXXXXXXX-1727Y1
1695-2690MHz	Y2/Y4	NDPMXXXXXXXX-1727Y2

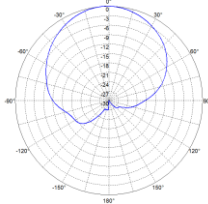
Note: (1) Physical RET Unit containing (3) Single RET



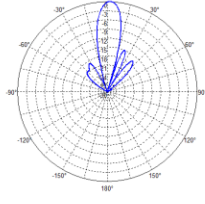
Frequency Range	617-894x2 1695-2690x4
Polarization	$\pm 45^\circ$
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Electrical Downtilt	$2^\circ - 12^\circ \times 6$

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Radiation Pattern (617 - 824 MHz)

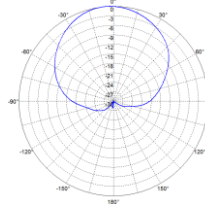


Horizontal Pattern

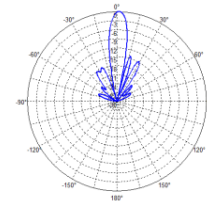


Vertical Pattern

Radiation Patterns (824 - 894 MHz)

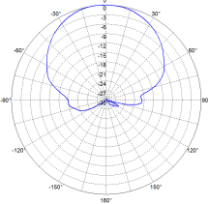


Horizontal Pattern

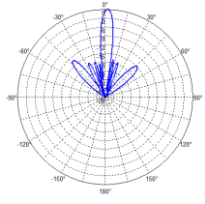


Vertical Pattern

Radiation Pattern (1695 - 1920 MHz)

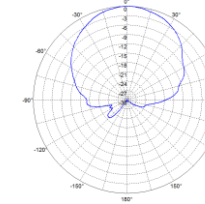


Horizontal Pattern

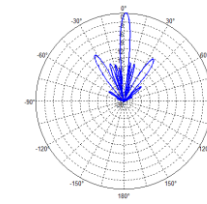


Vertical Pattern

Radiation Patterns (1920 - 2180 MHz)

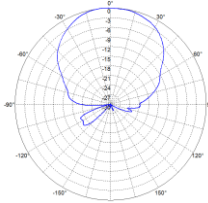


Horizontal Pattern

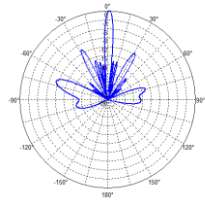


Vertical Pattern

Radiation Pattern (2300 - 2690 MHz)



Horizontal Pattern



Vertical Pattern