

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

Type DOD4-2LX4HX-BR65

Base Station Antenna

12-ports 617-894 / 617-894 /1695-2690 /1695-2690 /1695-2690 /1695-2690 MHz 65°, 14 / 14 / 18 / 18 / 18 / 18 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(°)		70	63	66	65	62	58	60
Vertical 3dB Beamwidth(°)		18.5	15.5	7.2	6.8	6.3	5.5	5.1
Gain (dBi)		13	13.9	16.8	17.2	17.7	17.7	17.8
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)		≥22	≥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
Isolation ports		≥24 dB						
Isolation Frequency		≥28 dB						
VSWR		< 1.5						
Intermodulation IM3(2x43dBm carrier)(dBc)		<-150	<-153	< -153				
Impedance		50 Ω						
Max. Power per Input (at 50°C ambient temperature)		500 W		300 W				
Lightning Protection		DC Ground						



Electrical Specifications,BASTA

Frequency Range(MHz)		2x617-894		4x1695-2690				
		617-698	698-894	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690
Polarization		±45°						
Beamwidth, Horizontal Tolerance (°)		±4.4	±6.0	±3.6	±4.2	±6.3	±5.6	±6.1
Beamwidth, Vertical Tolerance (°)		±1.5	±1.7	±0.5	±0.5	±0.4	±0.4	±0.4
Gain by all Beam Tilts,average, (dBi)		12.9	13.5	16.7	17.1	17.6	17.6	17.7
Gain by all Beam Tilts,Tolerance, (dB)		±0.6	±0.8	±0.5	±0.5	±0.6	±0.5	±0.5
Gain by all Beam Tilt,average (dBi)		2 12.9	2 13.5	2 16.6	2 17.1	2 17.4	2 17.5	2 17.6
		7 13	7 13.6	7 16.8	7 17.2	7 17.6	7 17.7	7 17.8
		12 12.9	12 13.4	12 16.5	12 17.0	12 17.3	12 17.4	12 17.5
Front-to-Back Ratio Total Power, ± 30° (dB)		≥22	≥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

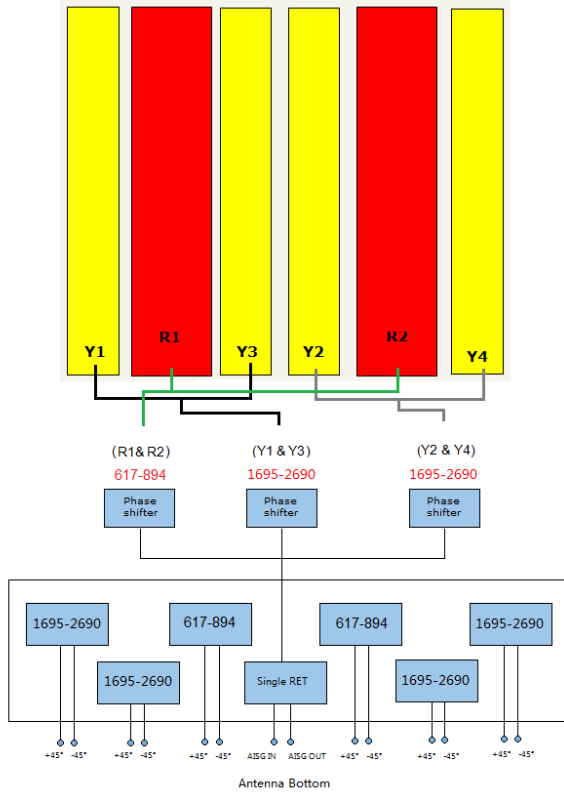
Radome Material	ASA
Connector Type and Location	4.3-10x12 ,Bottom iRCU in:1 x 8 pin male iRCU out:1 x 8 pin female
Dimensions,HxWxD(mm)/(inches)	1300 x 533 x 160 / 51.1 x 21.0x 6.3
Packing Size(mm)/(inches)	1600 x 633 x 291 / 63.0 x 24.9 x 11.4
Weight ,w/o Mounting kit(kg)/(lbs)	26.5/58.3
Weight with Downtilt Bracket(kg)/(lbs)	33.5/73.7
Weight with Fixed Bracket(kg)/(lbs)	31.5/ 69.3
Packing Weight (with Downtilt Bracket) (kg)/(lbs)	42 / 92.4
Packing Weight (with Fixed Bracket) (kg)/(lbs)	40 / 88
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))	800/148/576

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

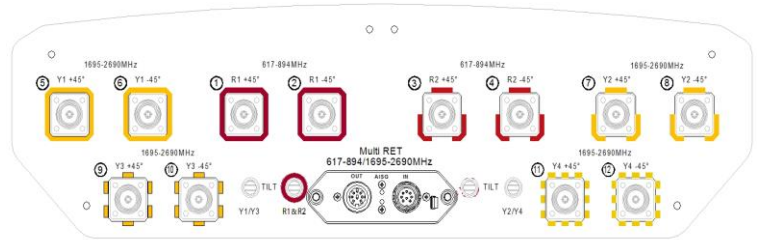
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COMPREHENSIVE TILT CONFIGURATION



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

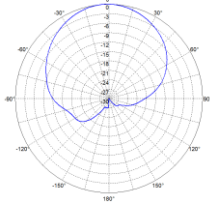
Note: (1) Physical RET Unit containing (3) Single RET



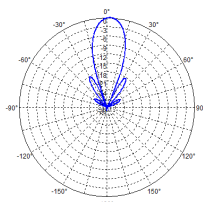
Frequency Range	617-894x2 1695-2690x4
Polarization	$\pm 45^\circ$
Half-Power Beam Width	65°
Electrical Downtilt	$2^\circ - 12^\circ \times 6$

Type DOD4-2LX4HX-BR65

Radiation Pattern (617 - 824 MHz)

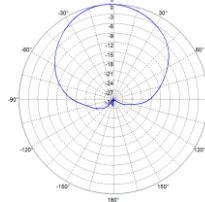


Horizontal Pattern

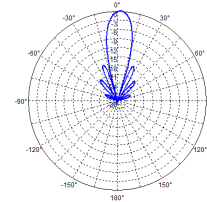


Vertical Pattern

Radiation Patterns (824 - 894 MHz)

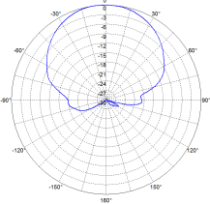


Horizontal Pattern

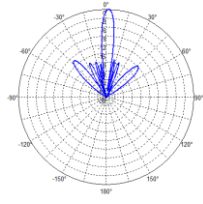


Vertical Pattern

Radiation Pattern (1695 - 1920 MHz)

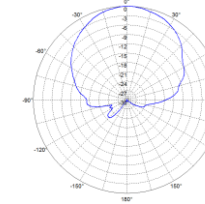


Horizontal Pattern

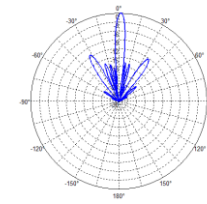


Vertical Pattern

Radiation Patterns (1920 - 2180 MHz)

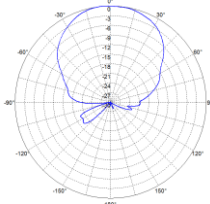


Horizontal Pattern

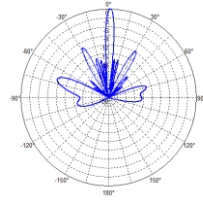


Vertical Pattern

Radiation Pattern (2300 - 2690 MHz)



Horizontal Pattern



Vertical Pattern