

Frequency Range	694-960x2 1695-2690x3
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x5

Type DEC7-2B3J-RE65

Base Station Antenna

10-ports 694-960 / 694-960 /1695-2690/1695-2690/1695-2690 MHz 65°, 15 /15/18/18/18 dBi, 2°-12° / 2°- 12 °/ 2°- 12 °/ 2°- 12 ° / 2°- 12 °Tilt Antenna With 5 Integrated RCUs.

Electrical Specifications



Frequency Range(MHz)		2X 690-960		3X1710-2690		
		690-894	880-960	1710-1920	1920-2200	2500-2690
Polarization		±45°				
Horizontal 3dB Beamwidth(°)		67±5	60±5	68±5	64±5	62±5
Vertical 3dB Beamwidth(°)		10.0±1.5	8.6±0.7	7.0±0.6	6.2±0.6	5.2±0.6
Gain (dBi)		15.0±0.5	15.2±0.5	16.8±0.5	17.2±0.5	18.2±0.5
Electrical Downtilt		2°-12°		2°-12°		
Upper Sidelobe Suppression(dB)	First	≥16	≥16	≥17	≥17	≥17
Front-to-Back Ratio Total Power, ±30° (dB)		≥25	≥25	≥25	≥25	≥25
Cross polar ratio	Main direction(dB)	≥17	≥17	≥18	≥18	≥18
	±60° (dB)	≥8	≥8	≥8	≥8	≥8
Isolation ports		≥27dB		≥27dB		
Isolation Frequency		≥28dB				
VSWR		< 1.5				
Intermodulation IM3		< -153		< -153		
Impedance		50 Ω		50 Ω		
Max. Power per Input (at 50°C ambient)		500 W		250 W		
Lightning Protection		DC Ground				

Mechanical Specifications

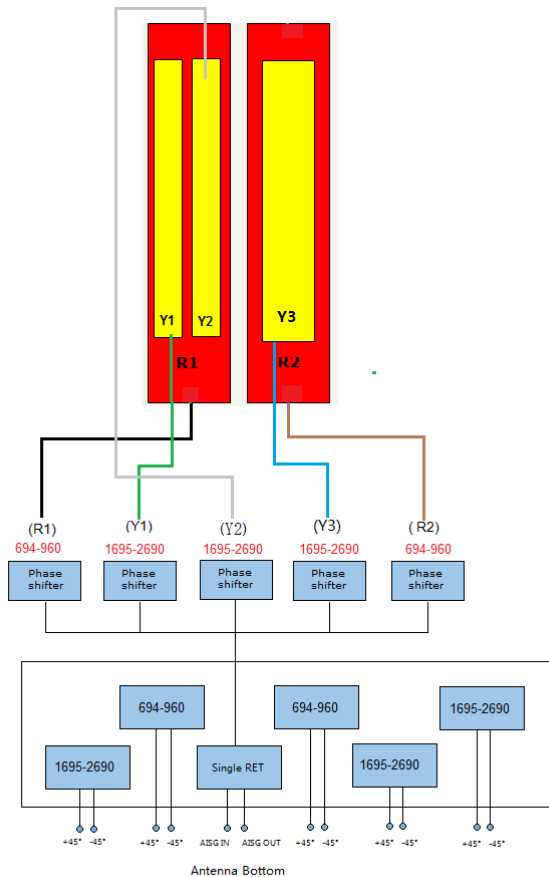
Radome Material	Fiberglass
Connector Type and Location	4.3-10x10, Bottom iRCU in:1 x 8 pin male iRCU out:1 x 8 pin female
Dimensions,HxWxD(mm)	1995 x 446 x165
Packing Size(mm)	2205 x 560 x 275
Weight ,w/o Mounting kit(kg)	25
Weight w/ Downtilt Bracket(kg)	30
Packing Weight (w/Downtilt Bracket) (kg)	36
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 150km/h (Frontal/lateral/Rearside(N))	1227/287/1305

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Integrated RET Properties		
RET Type	5 x Type 1 Single RET	
Protocols	Compliant to AISG 3.0/3GPP	
Input voltage range	+10~+30VDC(pin 6)	
Power consumption	<2W(stand by);<10W(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	

COMPREHESIVE TILT CONFIGURATION



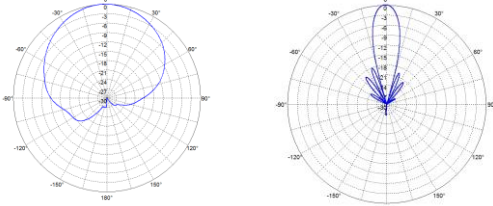
Frequency Range	Array	RET Unique ID
694-960MHz	R1	NDPMXXXXXXXX-7090R1
694-960MHz	R2	NDPMXXXXXXXX-7090R1
1695-2690MHz	Y1	NDPMXXXXXXXX-1727Y1
1695-2690MHz	Y2	NDPMXXXXXXXX-1727Y2
1695-2690MHz	Y3	NDPMXXXXXXXX-1727Y3

Note: (1) Physical RET Unit containing (5) Single RET

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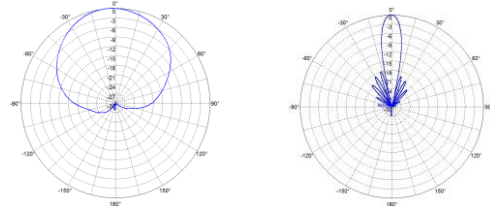
Radiation Pattern (694 - 894 MHz)



Horizontal Pattern

Vertical Pattern

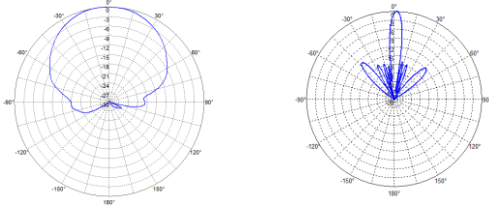
Radiation Patterns (894 - 960 MHz)



Horizontal Pattern

Vertical Pattern

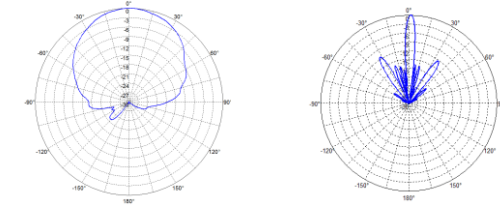
Radiation Pattern (1695 - 2200 MHz)



Horizontal Pattern

Vertical Pattern

Radiation Patterns (2490 - 2690 MHz)



Horizontal Pattern

Vertical Pattern