

Frequency Range	614-806x2 1695-2690x4
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x2 2° - 12°x4

Type N2F4W651618DVIF



Base Station Antenna

12-ports 614-806 / 614-806 / 1695-2690 / 1695-2690 / 1695-2690 / 1695-2690 MHz 65°, 15.5 / 15.5 / 18 / 18 / 18 / 18 dBi, 2°-12° / 2°-12° / 2°-12° / 2°-12° / 2°-12° / 2°-12° Tilt Antenna With 4 Integrated RCUs.

Electrical Specifications

Frequency Range(MHz)		2x614-806		4x1695-2690			
		614-698	698-806	1695-1920	1920-2180	2300-2400	2400-2690
Polarization		±45°					
Horizontal 3dB Beamwidth(°)		72	65	66	63	58	60
Vertical 3dB Beamwidth(°)		11	9.5	5.5	4.8	4.1	3.8
Gain (dBi)		15	15.5	17.5	18.1	18.0	17.8
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)		≥21	≥23	≥25	≥25	≥25	≥25
Cross polar ratio	Main direction(dB)	≥16	≥16	≥16	≥16	≥16	≥16
	±60° (dB)	≥7	≥7	≥6	≥6	≥5	≥5
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					

Mechanical Specifications

Redome 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 / 95.9 x 20.9x 6.3
Packing Size(mm)/(inches)	2750 x 650 x 305 / 108.3 x 25.6 x 12.0
Weight ,w/o Mounting kit(kg)/(lbs)	46 / 101.2
Weight,with Mounting kit(kg)/(lbs)	51 / 112.2
Packing Weight(kg)/(lbs)	61 / 134.2
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))	1784/353/1294

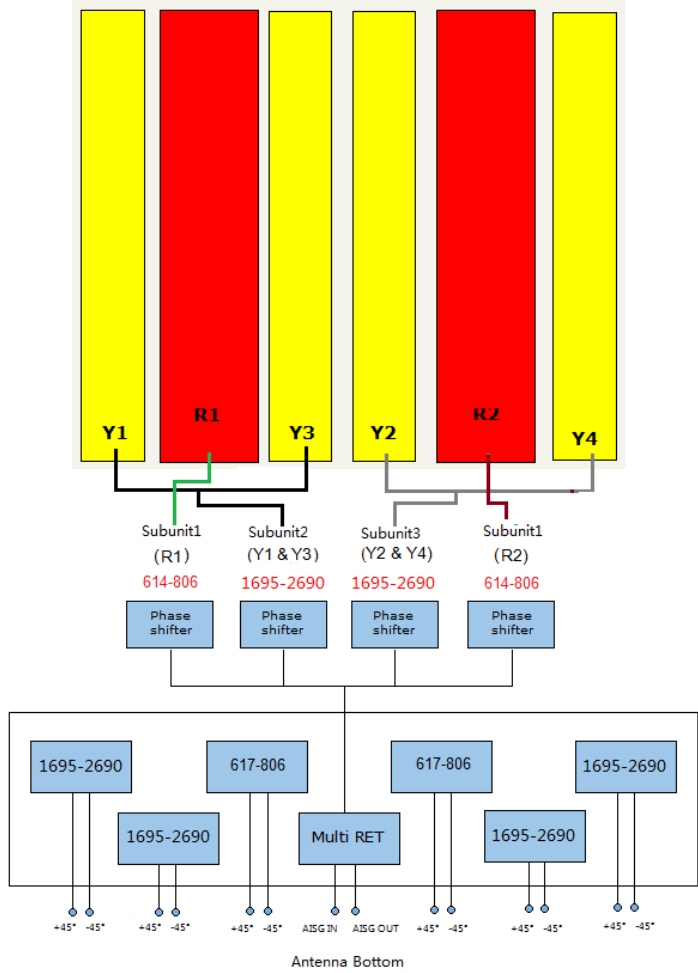
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Integrated RET Properties

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	

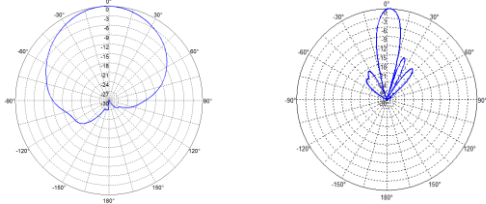
COMPREHENSIVE TILT CONFIGURATION



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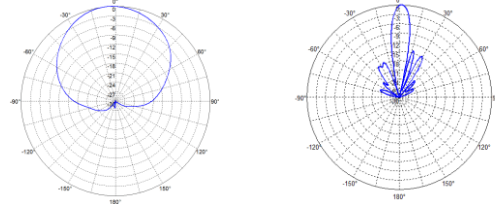
Radiation Pattern (614 - 698 MHz)



Horizontal Pattern

Vertical Pattern

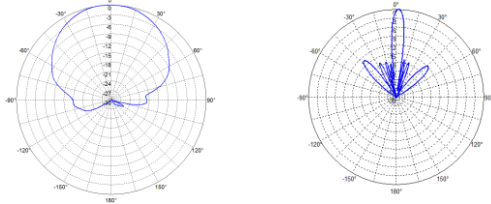
Radiation Patterns (698 - 806 MHz)



Horizontal Pattern

Vertical Pattern

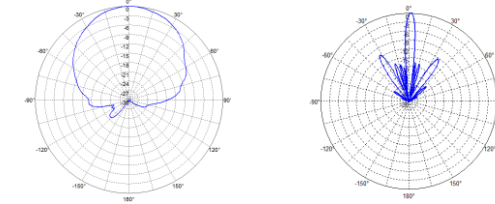
Radiation Pattern (1695 - 1920 MHz)



Horizontal Pattern

Vertical Pattern

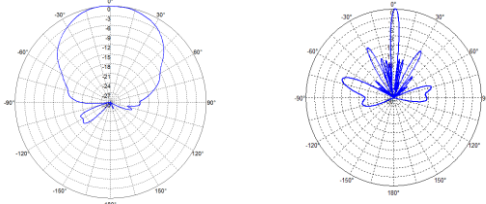
Radiation Patterns (1920 - 2180 MHz)



Horizontal Pattern

Vertical Pattern

Radiation Pattern (2300 - 2690 MHz)



Horizontal Pattern

Vertical Pattern