

Frequency Range	617-894x1
	1695-2400x2
	3400-4200x2
Polarization	±45°
Half-Power Beam Width	85°
Electrical Downtilt	2° - 12°x5

Type DEC3-1A2G2U-RC85

Base Station Antenna

10-ports 617-894 / 1695-2400 / 1695-2400/ 3400-4200 / 3400-4200 MHz 85°, 13 /13 /13 /15 /15 dBi, 2°-12° / 2°-12° / 2°-12° / 2°-12° / 2 - 12 °Tilt Antenna With 3 Integrated RCUs.

Electrical Specifications

Frequency Range(MHz)		617-894			2x1695-2400			2x3400-4200	
		617-698	698-824	824-894	1695-1920	1920-2180	2300-2400	3400-3800	3800-4200
Polarization		±45°							
Horizontal 3dB Beamwidth(°)		86	83	80	83	80	77	83	77
Vertical 3dB Beamwidth(°)		20.5	18	16	16.5	14.5	12.5	8.5	7.5
Gain (dBi)		11.4	12.1	12.6	12.3	12.8	13.3	13.5	14.5
Electrical Downtilt		2°-12°			2°-12°			2°-12°	
Upper Sidelobe Suppression(dB)	First	≥13	≥13	≥13	≥16	≥16	≥16	≥16	≥16
Front-to-Back Ratio Total Power,±30° (dB)		≥21	≥21	≥21	≥23	≥23	≥23	≥23	≥23
Cross polar ratio	Main direction (dB)	≥15	≥15	≥15	≥17	≥17	≥17	≥17	≥17
	±60° (dB)	≥7	≥7	≥7	≥7	≥7	≥7	≥7	≥7
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			200 W			200 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)/(inches)	1090 x 320 x 180 / 42.9 x 12.6 x 7.1
Packing Size(mm)/(inches)	1400 x 425 x 300 / 55.1 x 16.7 x 11.8
Weight ,w/o Mounting kit(kg)/(lbs)	20.5 / 45.1
Weight w/ Downtilt Bracket(kg)/(lbs)	26.5 / 58.3
Weight w/ Fixed Bracket(kg)/(lbs)	24.5 / 53.9
Packing Weight (w/ Downtilt Bracket) (kg)/(lbs)	35.5 / 78.1
Packing Weight (w/ Fixed Bracket) (kg)/(lbs)	33.5 / 73.7
Max. Wind Velocity(mph)	150
Mounting hardware	Ø 50 mm ~ Ø 115 mm
Operational Temperature(°C)	-40 to +65
Operational Humidity(%)	<95
Wind Load at 100mph (Frontal/lateral/Rearside(N))	445/135/322

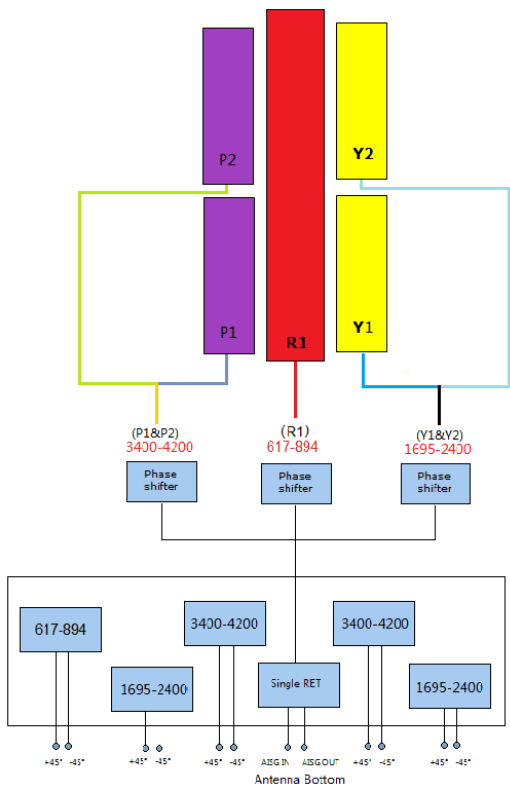
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Integrated RET Properties

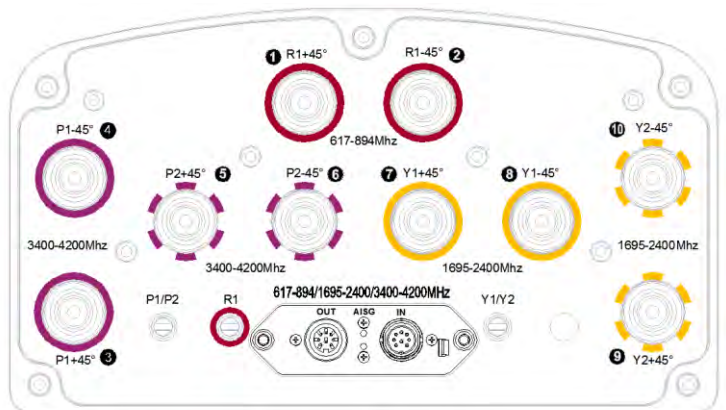
RET Type	3 x Type 1 Single RET	
Protocols	Compliant to AISG 2.0/3GPP	
Input voltage range	+10~+30VDC(pin 6)	
Power consumption	<2W(stand by);<13W(motor activated)	
Connectors	AISG	2 x 8 pin connector acc. To IEC 60130-9 Acc.to AISG Daisy chain in:male Daisy chain out:female
	Antenna	Two motor shaft(Embedded 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-6090R1
1695-2400MHz	Y1/Y2	NDPMXXXXXXXX-1727Y1
3400-4200MHz	P1/P2	NDPMXXXXXXXX-3442P1

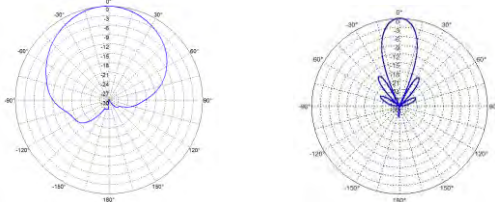
Note: (1) Physical RET Unit containing (3) Single RET



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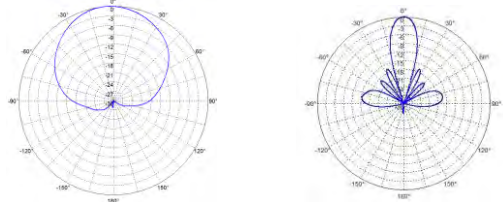
Radiation Pattern (617 - 824 MHz)



Horizontal Pattern

Vertical Pattern

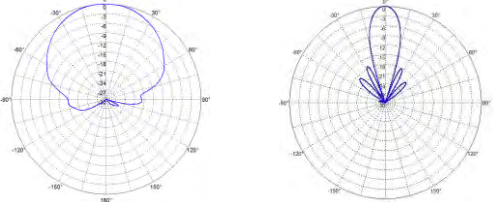
Radiation Patterns (824 - 894 MHz)



Horizontal Pattern

Vertical Pattern

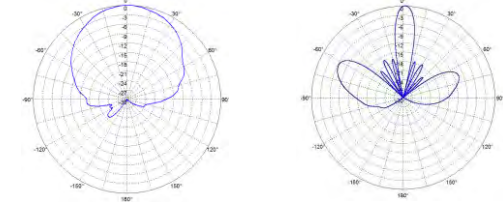
Radiation Pattern (1695 - 2180 MHz)



Horizontal Pattern

Vertical Pattern

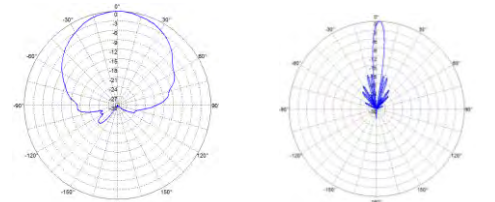
Radiation Patterns (2300 - 2400 MHz)



Horizontal Pattern

Vertical Pattern

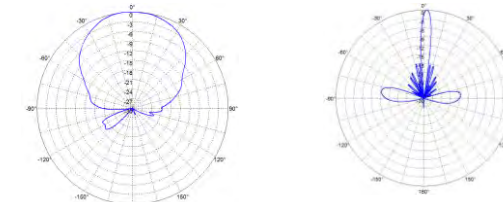
Radiation Pattern (3400 - 3800 MHz)



Horizontal Pattern

Vertical Pattern

Radiation Pattern (3800 - 4200 MHz)



Horizontal Pattern

Vertical Pattern