DENGYO

Base Station Antennas

Frequency Range	617-894x6 1695-2400x6 3400-4200x6
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x18

Type CAN6-6A6G6Q-TR65

Base Station Antenna

36-port Tri-sector 6x617-894 /6x1695-2400/ 6x3400-4200 MHz 65°, 12 /18 /16 dBi, 2°-12° / 2°-12° / 2°-12°Tilt Antenna With 12 Integrated RCUs.

Electrical Specifications

Frequency Range(MHz)		6x617-894			6x1695-2400			6x3400-4200	
		617-698	698-824	824-894	1695-1920	1920-2300	2300-2400	3400-3800	3800-4200
Polarization		±45°							
Horizontal 3dB Beamwidth(°)		74	71	66	68	65	58	65	59
Vertical 3dB Beamwidth(°)		26.5	23.0	20.5	6.1	5.3	4.8	6.0	5.5
Gain (dBi)		11.3	11.8	12.3	17.1	17.6	18.1	16.0	16.6
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)		≥23	≥23	≥23	≥25	≥25	≥25	≥25	≥25
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	4.3-10x36,Bottom iRCU in:3 x 8 pin male iRCU out:3 x 8 pin female
Dimensions,HxWxD(mm)/(inches)	1800 x φ440 / 70.9 x φ17.3
Packing Size(mm)/(inches)	2260x 570 x 685 / 89.0 x 22.4 x 27.0
Weight ,w/o Mounting kit(kg)/(lbs)	68.5 / 150.7
Weight w/ Fixed Bracket(kg)/(lbs)	78.5 / 172.7
Packing Weight（w/ Fixed Bracket）(w/o wooden case)(kg)/(lbs)	88/193.6
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))	486

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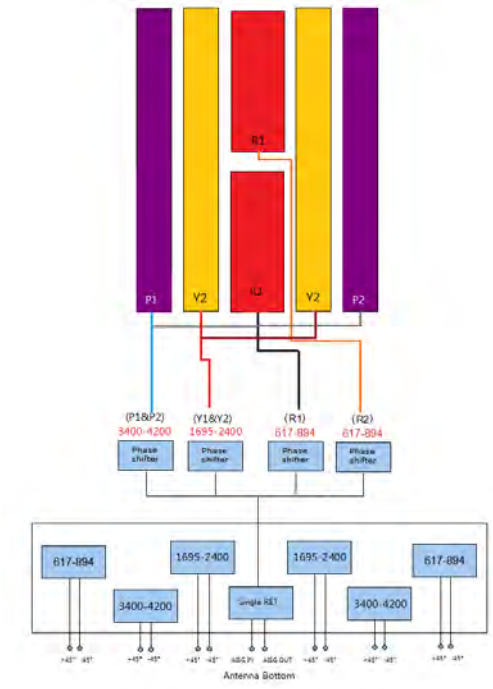
Integrated RET Properties

RET Type		12 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	6 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



(One sector diagram)

Frequency Range	Array	RET Unique ID
617-894MHz	R1	NDPMXXXXXXXX-6089R1
617-894MHz	R2	NDPMXXXXXXXX-6089R2
1695-2400MHz	Y1/Y2	NDPMXXXXXXXX-1724Y1
3400-4200MHz	P1/P2	NDPMXXXXXXXX-3442P1
617-894MHz	R3	NDPMXXXXXXXX-6089R3
617-894MHz	R4	NDPMXXXXXXXX-6089R4
1695-2400MHz	Y3/Y4	NDPMXXXXXXXX-1724Y3
3400-4200MHz	P3/P4	NDPMXXXXXXXX-3442P3
617-894MHz	R5	NDPMXXXXXXXX-6089R5
617-894MHz	R6	NDPMXXXXXXXX-6089R6
1695-2400MHz	Y5/Y6	NDPMXXXXXXXX-1724Y5
3400-4200MHz	P5/P6	NDPMXXXXXXXX-3442P5

Note: (3) Physical RET Unit containing (12) Single RET

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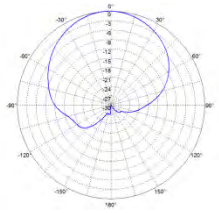
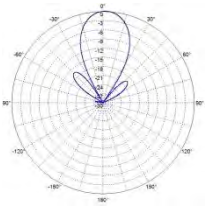
Radiation Pattern (617 - 824 MHz)

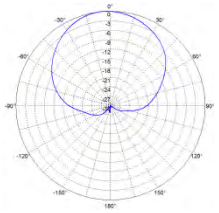


Horizontal Pattern

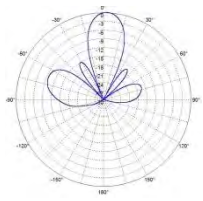


Vertical Pattern

Radiation Patterns (824 - 894 MHz)

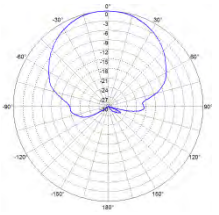


Horizontal Pattern

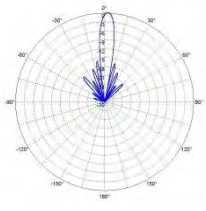


Vertical Pattern

Radiation Pattern (1695 - 2180 MHz)

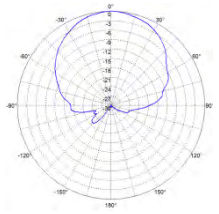


Horizontal Pattern

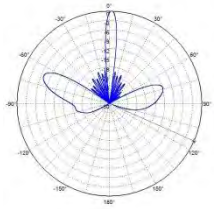


Vertical Pattern

Radiation Patterns (2300 - 2400 MHz)

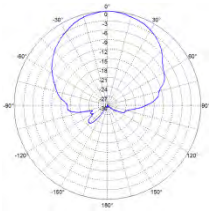


Horizontal Pattern

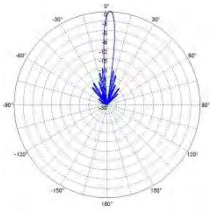


Vertical Pattern

Radiation Pattern (3400 - 3800 MHz)

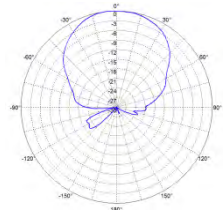


Horizontal Pattern

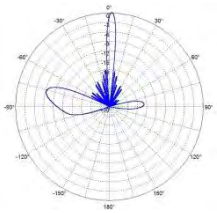


Vertical Pattern

Radiation Pattern (3800 - 4200 MHz)



Horizontal Pattern



Vertical Pattern

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