

Frequency Range	617-894x1 1695-2400x1 3300-4200x2
Polarization	±45°
Half-Power Beam Width	85°
Electrical Downtilt	2° - 12°x4

Type OCT4-1A1G2U-RD85

Base Station Antenna

8-ports 617-894 / 1695-2400 / 3300-4200 / 3300-4200 MHz 85°, 13 / 17 / 15 / 15 dBi, 2°-12° / 2°-12° / 2°-12° / 2°-12°

Tilt Antenna With 4 Integrated RCUs.

Electrical Specifications

Frequency Range(MHz)		617-894			1695-2400			2x3300-4200	
		617-698	698-824	824-894	1695-1920	1920-2180	2300-2400	3300-3800	3800-4200
Polarization		±45°							
Horizontal 3dB Beamwidth(°)		88	85	80	85	83	78	83	77
Vertical 3dB Beamwidth(°)		20.5	18	16	7.7	6.9	6	7.5	6.5
Gain (dBi)		12.5	12.8	13.0	16.2	16.6	16.9	14.3	14.7
Electrical Downtilt		2°-12°			2°-12°			2°-12°	
Upper Sidelobe Suppression(dB)	First	≥14	≥14	≥14	≥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	ASA
Connector Type and Location	4.3-10x8, Bottom iRCU in: 1 x 8 pin male iRCU out: 1 x 8 pin female
Dimensions, HxWxD(mm)/(inches)	1220 x 320 x 165 / 48 x 12.6 x 6.5
Packing Size(mm)/(inches)	1530x 425 x 285 / 60.2 x 16.7 x 11.2
Weight ,w/o Mounting kit(kg)/(lbs)	20 / 44
Weight w/ Downtilt Bracket(kg)/(lbs)	26 / 57.2
Weight w/ Fixed Bracket(kg)/(lbs)	24 / 52.8
Packing Weight (w/ Downtilt Bracket) (kg)/(lbs)	35 / 77
Packing Weight (w/ Fixed Bracket) (kg)/(lbs)	33 / 72.6
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))	445/135/322

This publication is issued to information only and is not to form part of any order or contract DENGYO reserves the right to changes specifications without prior notice.

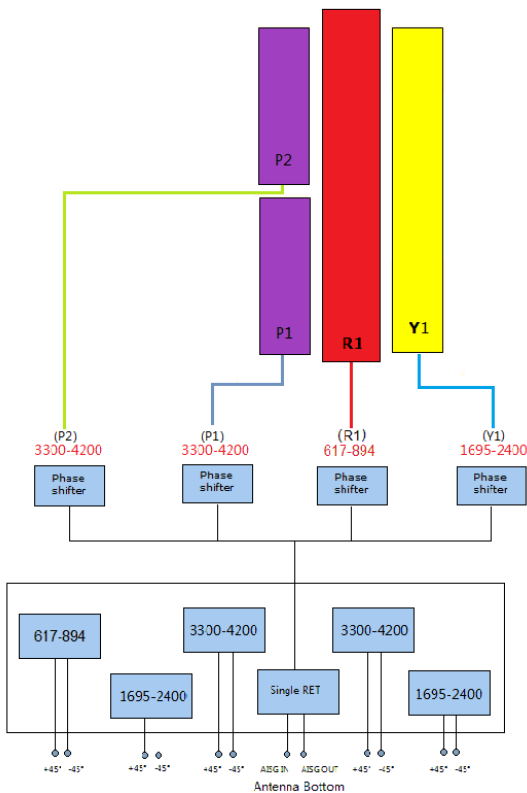
Type OCT4-1A1G2U-RD85

Frequency Range	617-894x1
	1695-2400x1
	3300-4200x2
Polarization	±45°
Half-Power Beam Width	85°
Electrical Downtilt	2° - 12°x4

Integrated RET Properties

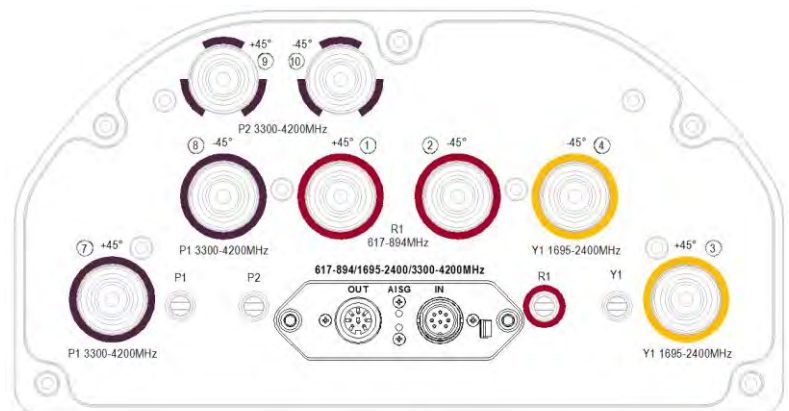
RET Type	4 x Type 1 Single RET	
Protocols	Compliant to AISG 2.0/3GPP	
Input voltage range	+10~+30VDC(pin 6)	
Power consumption	<2W(stand by);<13W(motor activated)	
Connectors	AISG	2 x 8 pin connector acc. To IEC 60130-9 Acc.to AISG Daisy chain in:male Daisy chain out:female
	Antenna	Two motor shaft(Embedded 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	NDPMXXXXXXXX-1724Y1
3300-4200MHz	P1	NDPMXXXXXXXX-3342P1
3300-4200MHz	P2	NDPMXXXXXXXX-3342P2

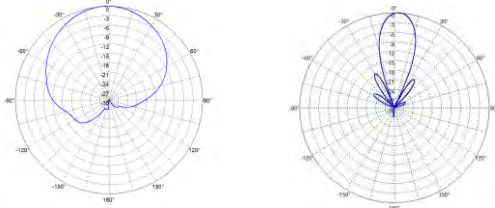
Note: (1) Physical RET Unit containing (4) Single RET



Type OCT4-1A1G2U-RD85

Frequency Range	617-894x1 1695-2400x1 3300-4200x2
Polarization	±45°
Half-Power Beam Width	85°
Electrical Downtilt	2° - 12°x4

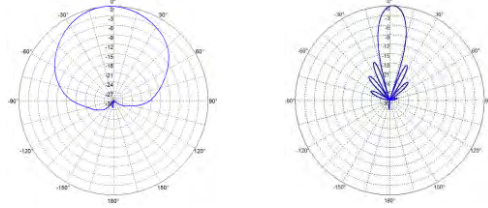
Radiation Pattern (617 - 824 MHz)



Horizontal Pattern

Vertical Pattern

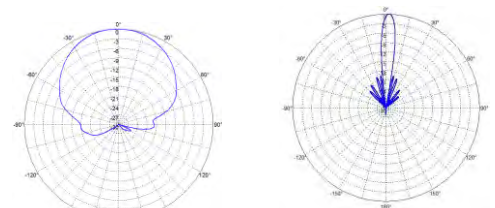
Radiation Patterns (824 - 894 MHz)



Horizontal Pattern

Vertical Pattern

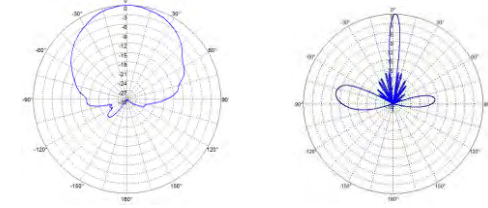
Radiation Pattern (1695 - 2180 MHz)



Horizontal Pattern

Vertical Pattern

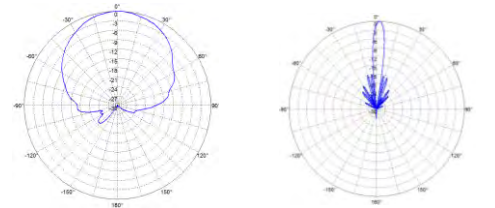
Radiation Patterns (2300 - 2400 MHz)



Horizontal Pattern

Vertical Pattern

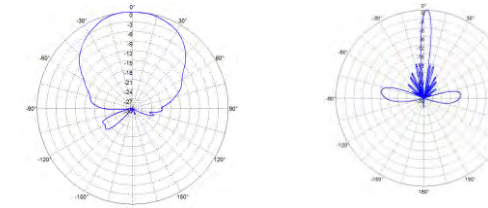
Radiation Pattern (3300 - 3800 MHz)



Horizontal Pattern

Vertical Pattern

Radiation Pattern (3800 - 4200 MHz)



Horizontal Pattern

Vertical Pattern