

Type OCT5-4J-RD65

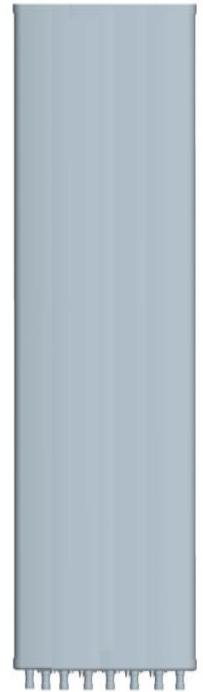
Base Station Antenna

8-ports 1710-2690/1710-2690/1710-2690/1710-2690 MHz 65° , 18/18/18/18 dBi, 2° - 12° / 2° - 12° / 2° - 12° Tilt Antenna
With 4 Integrated RCU.

Electrical Specifications



Frequency Range(MHz)		4X1710-2690		
		1710-1920	1920-2300	2500-2690
Polarization		$\pm 45^\circ$		
Horizontal 3dB Beamwidth($^\circ$)		68 ± 4	64 ± 4	60 ± 5
Vertical 3dB Beamwidth($^\circ$)		6.8 ± 0.6	6.6 ± 0.5	5.8 ± 0.4
Gain (dBi)		17.0 ± 0.5	17.5 ± 0.5	18.2 ± 0.5
Electrical Downtilt		2 - 12		
Upper Sidelobe Suppression(dB)	First	>16	>16	>16
Front-to-Back Ratio Total Power, $\pm 30^\circ$ (dB)		>25	>25	>25
Cross polar ratio	Main direction(dB)	>18	>18	>18
	$\pm 60^\circ$ (dB)	>8	>8	>8
Isolation ports (dB)		≥ 28		
Isolation Frequency (dB)		≥ 28		
VSWR		<1.5		
Intermodulation IM3		<-153 dBc (2x43dBm carrier)		
Impedance		50 Ω		
Max. Power per Input (at 50°C ambient temperature)		250 W		
Lightning Protection		DC Ground		



Mechanical Specifications

Radome Material	Fiberglass
Connector Type and Location	4.3-10x6 ,Bottom iRCU in:1 x 8 pin male iRCU out:1 x 8 pin female
Dimensions,HxWxD(mm)/(inches)	1410 x480x175
Packing Size(mm)/(inches)	1620x560x275
Weight ,w/o Mounting kit(kg)/(lbs)	24
Weight w/ Downtilt Bracket(kg)/(lbs)	28
Packing Weight (w/ Downtilt Bracket) (kg)/(lbs)	31.5
Max. Wind Velocity(mph)	150
Mounting hardware	$\phi 50 \text{ mm} \sim \phi 115 \text{ mm}$
Operational Temperature($^\circ\text{C}$)	-40 to +65
Operational Humidity(%)	<95
Wind Load at 150km/h (Frontal/lateral/Rearside(N))	735/318/774

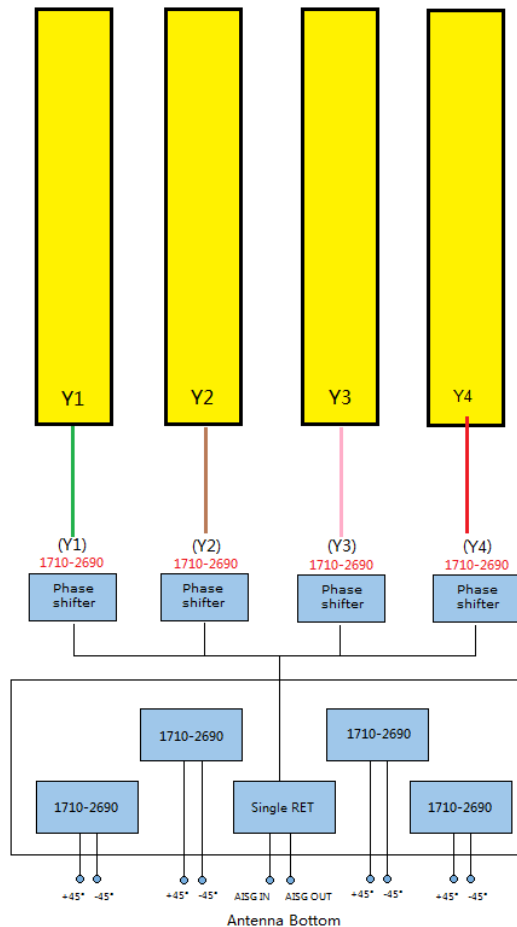
Frequency Range	1710-2690X4
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°X4

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Integrated RET Properties

RET Type	4x 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	

COMPREHENSIVE TILT CONFIGURATION

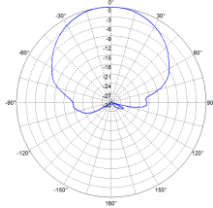


Frequency Range	Array	RET Unique ID
1710-2690MHz	Y1	NDPMXXXXXXXX-172Y1
1710-2690MHz	Y2	NDPMXXXXXXXX-172Y2
1710-2690MHz	Y3	NDPMXXXXXXXX-172Y3
1710-2690MHz	Y4	NDPMXXXXXXXX-172Y3

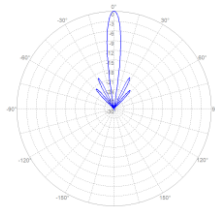
Note: (1) Physical RET Unit containing (4) Single RET

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Radiation Pattern (1710 - 2200 MHz)

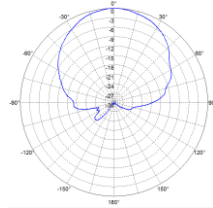


Horizontal Pattern

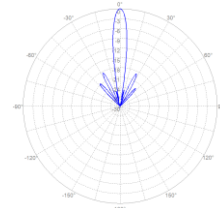


Vertical Pattern

Radiation Patterns (2200 - 2690 MHz)



Horizontal Pattern



Vertical Pattern