

Frequency Range	698-960X2
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°X2

Type QUA7-2B-RB65

Base Station Antenna

4-ports 698-960/698-960 MHz 65°, 16/16 dBi, 2°-12°/ 2°-12°Tilt Antenna With 2 Integrated RCUs.



Electrical Specifications

Frequency Range(MHz)		2X698-960		
		698-803	790-894	880-960
Polarization		±45°		
Horizontal 3dB Beamwidth(°)		69±6	63±5	61±5
Vertical 3dB Beamwidth(°)		10.0±0.8	9.2±0.6	8.5±0.5
Gain (dBi)		15.2±0.5	15.7±0.5	16.0±0.5
Electrical Downtilt		2°-12°		
Upper Sidelobe Suppression(dB)	First	≥15	≥15	≥15
Front-to-Back Ratio Total Power, ±30° (dB)		>23	≥25	≥25
Cross polar ratio	Main direction(dB)	≥17	≥17	≥17
	±60° (dB)	≥10	≥9	≥8
Cross polar isolation (dB)		≥28 dB		
Isolation Frequency(dB)		≥26 dB		
VSWR		<1.5		
Intermodulation IM3		<-153 dBc (2x43dBm carrier)		
Impedance		50 Ω		
Max. Power per Input (at 50°C ambient temperature)		500 W		
Lightning Protection		DC Ground		

Mechanical Specifications

Radome Material	Fiberglass
Connector Type and Location	4.3-10x2 ,Bottom iRCU in:1 x 8 pin male iRCU out:1 x 8 pin female
Dimensions,HxWxD(mm)/(inches)	1995x446x165
Packing Size(mm)/(inches)	2210x535x270
Weight ,w/o Mounting kit(kg)/(lbs)	30
Weight w/ Downtilt Bracket(kg)/(lbs)	35
Packing Weight (w/ Downtilt Bracket) (kg)/(lbs)	42
Max. Wind Velocity(mph)	150
Mounting hardware	ϕ 50 mm ~ ϕ 115 mm
Operational Temperature(°C)	-40 to +65
Operational Humidity(%)	<95
Wind Load at 150km/h (Frontal/lateral/Rearside(N))	1221/475/1285

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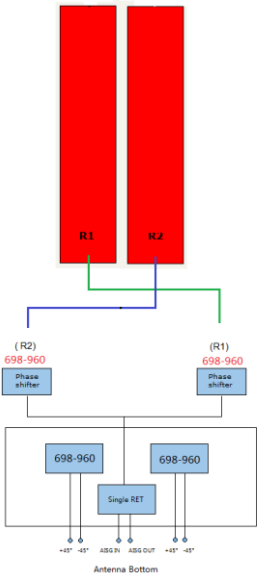
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Integrated RET Properties

RET Type	2x 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	

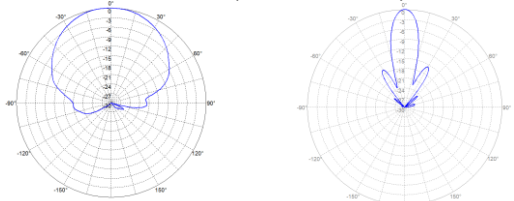
COMPREHENSIVE TILT CONFIGURATION

Frequency Range	Array	RET Unique ID
698-960MHz	R1	NDPMXXXXXXXX-7090R1
698-960MHz	R2	NDPMXXXXXXXX-7090R2



Note: (1) Physical RET Unit containing (2) Single RET

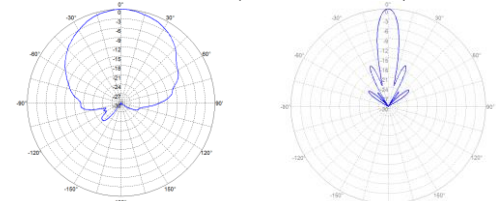
Radiation Pattern (698-824 MHz)



Horizontal Pattern

Vertical Pattern

Radiation Patterns (880-960 MHz)



Horizontal Pattern

Vertical Pattern