

Type DUA6-1B-RA65

Base Station Antenna

2-ports 698-960 MHz 65° , 16.0 dBi, 2° - 12° Tilt Antenna With 1 Integrated RCU.



Electrical Specifications

Frequency Range(MHz)		698-960		
		698-806	790-894	880-960
Polarization		$\pm 45^\circ$		
Horizontal 3dB Beamwidth($^\circ$)		67	65	65
Vertical 3dB Beamwidth($^\circ$)		12	11	10
Gain (dBi)		14.7	15.2	15.7
Electrical Downtilt		2° - 12°		
Upper Sidelobe Suppression(dB)	First	≥ 18	≥ 18	≥ 18
Front-to-Back Ratio Total Power, $\pm 30^\circ$ (dB)		≥ 28	≥ 28	≥ 28
Isolation ports		≥ 28 dB		
VSWR		<1.5		
Intermodulation IM3 (dBc) (2x43dBm carrier)		<-153		
Impedance		50 Ω		
Max. Power per Input (at 50°C ambient temperature)		500 W		
Lightning Protection		DC Ground		



Electrical Specifications,BASTA

Frequency Range(MHz)		698-960		
		698-806	790-894	880-960
Polarization		$\pm 45^\circ$		
Beamwidth, Horizontal Tolerance ($^\circ$)		± 4.2	± 5.1	± 5.3
Beamwidth, Vertical Tolerance ($^\circ$)		± 1.1	± 0.9	± 0.8
Gain by all Beam Tilts,average, (dBi)		14.2	14.7	15.2
Gain by all Beam Tilts,Tolerance, (dB)		± 0.5	± 0.5	± 0.5
Gain by all Beam Tilt,average (dBi)		2 14.2	2 14.6	2 15.1
		7 14.4	7 14.9	7 15.4
		12 14.1	12 14.4	12 15.0
Front-to-Back Ratio Total Power, $\pm 30^\circ$ (dB)		≥ 28	≥ 28	≥ 28
Cross polar ratio	Main direction(dB)	≥ 17	≥ 17	≥ 17
	$\pm 60^\circ$ (dB)	≥ 8	≥ 10	≥ 10

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

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Mechanical Specifications

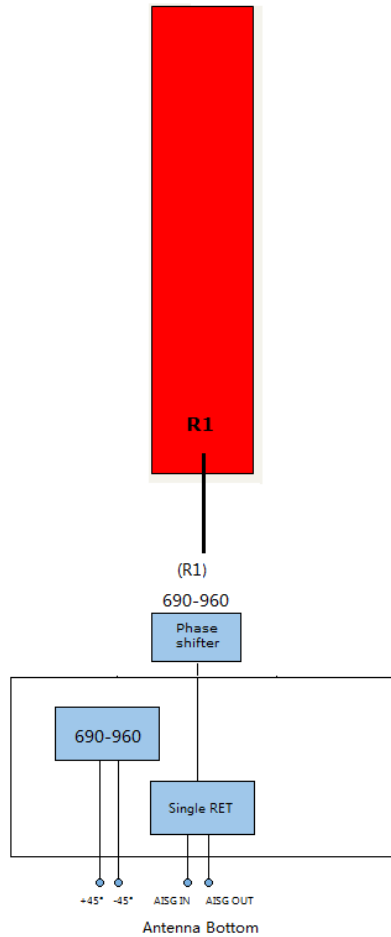
Radome Material	Fiberglass
Connector Type and Location	4.3-10x2 ,Bottom iRCU in:1 x 8 pin male iRCU out:1 x 8 pin female
Dimensions,HxWxD(mm)/(inches)	1828 x 265 x 150 / 71.9 x 10.4x 5.9
Packing Size(mm)/(inches)	2140 x 690 x 300 / 84.2 x 27.2 x 11.8
Weight ,w/o Mounting kit(kg)/(lbs)	20 / 44.0
Weight w/ Downtilt Bracket(kg)/(lbs)	26 / 57.2
Weight w/ Fixed Bracket(kg)/(lbs)	24 / 52.8
Packing Weight (w/ Downtilt Bracket) (kg)/(lbs)	34 / 74.8
Packing Weight (w/ Fixed Bracket) (kg)/(lbs)	32 / 70.4
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))	560/236/404

Integrated RET Properties

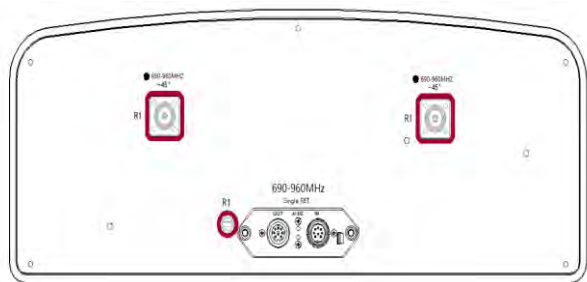
RET Type		1x Type 1 Single RET
Protocols		Compliant to AISG 2.0/3GPP
Input voltage range		+10~+30VDC(pin 6)
Power consumption		<2W(stand by);<13W(motor activated)
Connectors	AISG	2 x 8 pin connector acc. To IEC 60130-9 Acc.to AISG Daisy chain in:male Daisy chain out:female
	Antenna	Two motor shaft(Embedded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

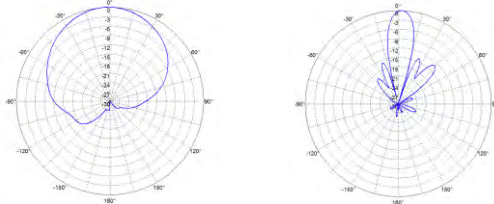
Frequency Range	Array	RET Unique ID
617-894MHz	R1	NDPMXXXXXXXX-6089R1



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



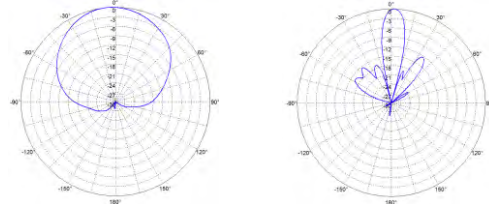
Radiation Pattern (698 - 806 MHz)



Horizontal Pattern

Vertical Pattern

Radiation Patterns (806 - 960 MHz)



Horizontal Pattern

Vertical Pattern