

Frequency Range	3300-3800x2
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	0° - 8° x2

Type QUA4-2HX-BW65

Dual-Band 3300-3800 / 3300-3800 MHz 65°, 18.2 / 18.2 /dBi, 0°-8° / 0°-8°Tilt Antenna With 2 Integrated RCUs and 2 Indicators

Electrical Specifications



Frequency Range(MHz)		2x3300-3800	
		3300-3500	3500-3800
Polarization		±45	
Horizontal 3dB Beamwidth(°)		65	60
Vertical 3dB Beamwidth(°)		4.5	4.2
Gain (dBi)		17.7	18.2
Electrical Downtilt		0°-8°	
Upper Sidelobe Suppression(dB)	First	≥16	≥16
Front-to-Back Ratio Total Power, ±30° (dB)		≥25	≥25
Cross polar ratio	Main direction (dB)	≥17	≥17
	±60° (dB)	≥7	≥7
Isolation ports		≥25 dB	
Isolation Frequency		≥28 dB	
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

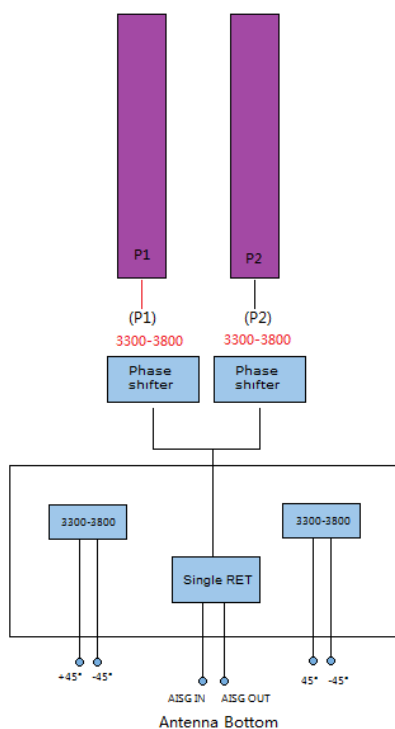
Redome Material	Fiberglass
Connector Type and Location	4.3-10x4, Bottom iRCU in:1 x 8 pin male iRCU out:1 x 8 pin female
Dimensions,HxWxD(mm)/(inches)	1200 x 168 x 90 / 47.2 x 6.6 x 3.5
Packing Size(mm)/(inches)	1500 x 290 x 235 / 59.1 x 11.4 x 9.3
Weight ,w/o Mounting kit(kg)/(lbs)	12.5/ 27.5
Weight w/ Downtilt Barcket(kg)/(lbs)	17.5 / 38.5
Weight w/ Fixed Barcket(kg)/(lbs)	15.5 /34.1
Packing Weight (w/ Downtilt Barcket) (kg)/(lbs)	23.5 / 51.7
Packing Weight (w/ Fixed Barcket) (kg)/(lbs)	21.5/47.3
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 100mph (Frontal/lateral/Rearside(N))	233/77/167

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Integrated RET Properties

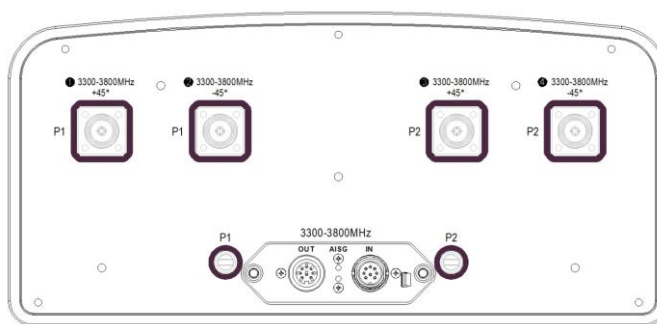
RET Type	2x Type 1 Single RET	
Protocols	Compliant to AISG 2.0/3GPP	
Input voltage range	+10~+30VDC(pin 6)	
Power consumption	<2W(stand by);<13W(motor activated)	
Connectors	AISG	2 x 8 pin connector acc. To IEC 60130-9 Acc.to AISG Daisy chain in:male Daisy chain out:female
	Antenna	Two motor shaft(Embedded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

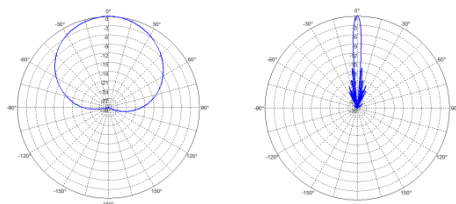


Frequency Range	Array	RET Unique ID
3300-3800MHz	P1	NDPMXXXXXXXX-3338P1
3300-3800MHz	P2	NDPMXXXXXXXX-3338P2

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



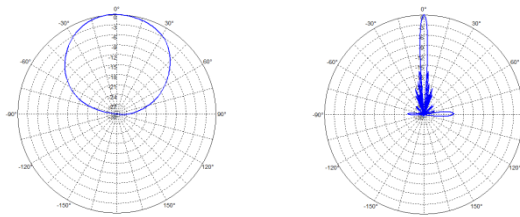
Radiation Patterns (3300 - 3500 MHz)



Horizontal Pattern

Vertical Pattern

Radiation Patterns (3500-3800 MHz)



Horizontal Pattern

Vertical Pattern