

Type OCT3-4HX-CB65

8-ports 3300-4200 / 3300-4200 / 3300-4200 / 3300-4200 MHz 65° , 18 / 18 / 18 / 18 dBi, $0^\circ - 10^\circ$ / $0^\circ - 10^\circ$ / $0^\circ - 10^\circ$ / $0^\circ - 10^\circ$ Tilt
Antenna With 4 Integrated RCUs and 4 Indicators

Electrical Specifications

Frequency Range(MHz)		4x3300-4200	
		3300-3600	3600-4200
Polarization		± 45	
Horizontal 3dB Beamwidth($^\circ$)		65	60
Vertical 3dB Beamwidth($^\circ$)		5.5	5
Gain (dBi)		17.2	17.7
Electrical Downtilt		$0^\circ - 10^\circ$	
Upper Sidelobe Suppression(dB)	First	≥ 16	≥ 16
Front-to-Back Ratio Total Power, $\pm 30^\circ$ (dB)		≥ 25	≥ 25
Cross polar ratio	Main direction (dB)	≥ 17	≥ 17
	$\pm 60^\circ$ (dB)	≥ 7	≥ 7
Isolation ports		≥ 28 dB	
VSWR		< 1.5	
Impedance		50 Ω	
Max. Power per Input (at 50°C ambient temperature)		250 W	
Lightning Protection		DC Ground	



Mechanical Specifications

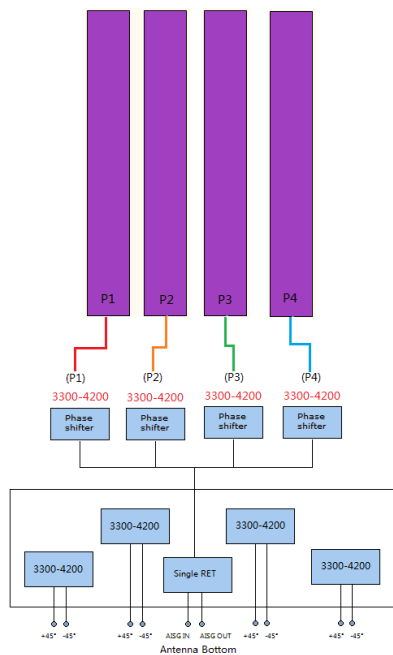
Radome Material	Fiberglass
Connector Type and Location	4.3-10x8, Bottom iRCU in: 1 x 8 pin male iRCU out: 1 x 8 pin female
Dimensions, HxWxD(mm)/(inches)	900 x 295 x 115 / 35.4 x 11.6 x 4.5
Packing Size(mm)/(inches)	1200 x 420 x 260 / 47.2 x 16.5 x 10.2
Weight ,w/o Mounting kit(kg)/(lbs)	15.5 / 34.1
Weight w/ Downtilt Bracket(kg)/(lbs)	22.5 / 49.5
Weight w/ Fixed Bracket(kg)/(lbs)	20.5 / 45.1
Packing Weight (w/ Downtilt Bracket) (kg)/(lbs)	28.5 / 62.7
Packing Weight (w/ Fixed Bracket) (kg)/(lbs)	26.5 / 58.3
Max. Wind Velocity(mph)	150
Mounting hardware	$\phi 50$ mm ~ $\phi 115$ mm
Operational Temperature($^\circ\text{C}$)	-40 to +65
Operational Humidity(%)	< 95
Wind Load at 100mph (Frontal/lateral/Rearside(N))	307/74/219

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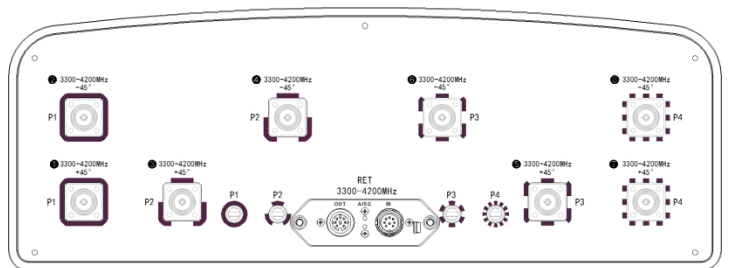
Integrated RET Properties

RET Type	4x 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	$\geq 160\text{mN.m}$	
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	

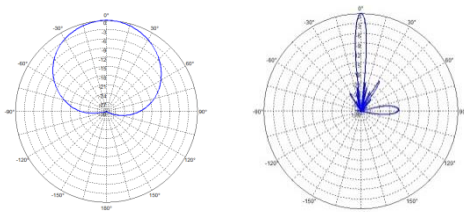
COMPREHENSIVE TILT CONFIGURATION



Frequency Range	Array	RET Unique ID
3300-4200MHz	P1	NDPMXXXXXXXX-3342P1
3300-4200MHz	P2	NDPMXXXXXXXX-3342P2
3300-4200MHz	P3	NDPMXXXXXXXX-3342P3
3300-4200MHz	P4	NDPMXXXXXXXX-3342P4



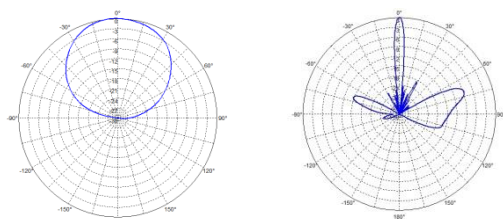
Radiation Patterns (3300 - 3800 MHz)



Horizontal Pattern

Vertical Pattern

Radiation Patterns (3800-4200 MHz)



Horizontal Pattern

Vertical Pattern