

8-Port multibeam antenna ,8x 3100-4200 MHz , 4x 33° HPBW, 1x RET

- Enhances network capacity and spectrum utilization when used in six sector applications
- Reduces antenna count to minimize Cap-Ex and Op-Ex costs 3 antennas required for 6 sector configurations
- Future proof-covers bands 42,43,48 plus C-Band and future CBRS expansions

General Specifications

Depth

Antenna Type	Multibeam
Band	Single band
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	8

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2	
RET Interface	AISG1 8-pin DIN Female AISG1 8-pin DIN Male	
RET Interface, quantity	1 female 1 male	
Input Voltage	10-30 Vdc	
Internal RET	High band (1)	
Power Consumption, active state, maximum	10 W	
Power Consumption, idle state, maximum	2 W	
Protocol	3GPP/AISG 2.0 (Single RET)	
Dimensions		
Width	301 mm 11.85 in	

181 mm | 7.126 in

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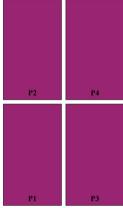
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Length

Net Weight, without mounting kit

1100 mm | 43.307 in 12 kg | 26.455 lb

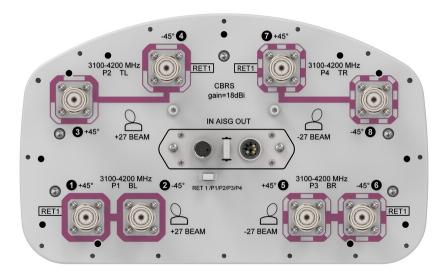
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID		
P1	3100-4200	1 - 2					
P2	3100-4200	3 - 4			1	416.61	CDD1
P3	3100-4200	5 - 6		AISG1	CPxxxxxxxxxxxxxxxP1		
P4	3100-4200	7 - 8					

(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration



Electrical Specifications

Impedance

50 ohm

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Operating Frequency Band	3100 - 4200 MHz
Polarization	±45°
Total Input Power, maximum	640 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	3100-3550	3550-3700	3700-4200
Gain, dBi	17.5	17.7	17.8
Beam Centers, Horizontal, degrees	±27	±27	±27
Beamwidth, Horizontal, degrees	38	36	34
Beamwidth, Vertical, degrees	9.9	9.1	8.5
Beam Tilt, degrees	2-12	2-12	2-12
USLS (First Lobe), dB	19	24	20
Front-to-Back Ratio at 180°, dB	32	32	31
Isolation, Cross Polarization, dB	25	25	25
Isolation, Inter-band, dB	25	25	25
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-145	-145	-145
Input Power per Port at 50°C, maximum, watts	80	80	80

Mechanical Specifications

Wind Loading @ Velocity, frontal	154.0 N @ 150 km/h (34.6 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	125.0 N @ 150 km/h (28.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	297.0 N @ 150 km/h (66.8 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	157.0 N @ 150 km/h (35.3 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	441 mm 17.362 in
Depth, packed	337 mm 13.268 in
Length, packed	1245 mm 49.016 in
Weight, gross	23 kg 50.706 lb

Regulatory Compliance/Certifications

Agency

CHINA-ROHS

Classification Below maximum concentration value

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ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

Included Products

BSAMNT-3

Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

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