2VV-33C-R0-V5

8-port multibeam antenna, 8x 1695–2690 MHz, 4x 33° HPBW

- 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
- Manual tilt adjustment with tilt indicators. RET compatible by replacing the manual tilt cartridge on site with the “plug-in” RET

General Specifications

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	0
RF Connector Quantity, mid band	8
RF Connector Quantity, low band	0
RF Connector Quantity, total	8

Dimensions

Width	395 mm | 15.551 in
Depth	228 mm | 8.976 in
Length	2499 mm | 98.386 in
Net Weight, antenna only	28.5 kg | 62.832 lb

Array Layout

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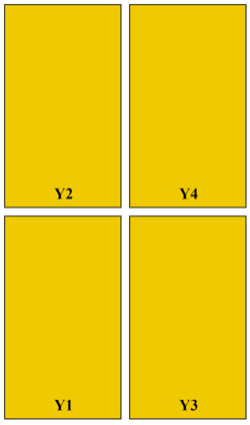
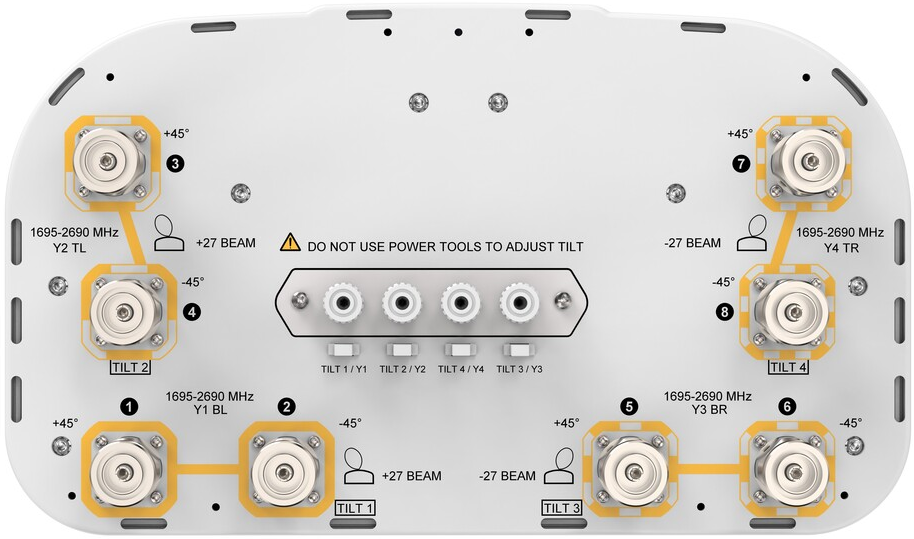


Array ID	Frequency (MHz)	RF Connector	HPBW	RET (N/A)	AISG No.	AISG RET UID
Y1	1695-2690	1 - 2	33°	N/A	NA	N/A
Y2	1695-2690	3 - 4	33°			
Y3	1695-2690	5 - 6	33°			
Y4	1695-2690	7 - 8	33°			

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

Port Configuration



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz
Polarization	±45°
Total Input Power, maximum	1,200 W @ 50 °C

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Electrical Specifications

	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
Frequency Band, MHz	**1695–1880**	**1850–1990**	**1920–2180**	**2300–2500**	**2500–2690**
RF Port	1-8	1-8	1-8	1-8	1-8
Gain, dBi	18.9	19.4	19.6	19.8	20
Beam Centers, Horizontal, degrees	±27	±27	±27	±27	±27
Beamwidth, Horizontal, degrees	40	38	37	34	30
Beamwidth, Vertical, degrees	8	7.6	7.2	6.4	6
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	17	17	18	19	21
Front-to-Back Ratio at 180°, dB	36	37	38	37	38
Isolation, Cross Polarization, dB	28	28	28	28	28
Isolation, Inter-band, dB	28	28	28	28	28
Isolation, Beam to Beam, dB	28	28	28	28	28
VSWR | Return loss, dB	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	200	200	200	200	200

Mechanical Specifications

Wind Loading @ Velocity, frontal	525.0 N @ 150 km/h (118.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	386.0 N @ 150 km/h (86.8 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	898.0 N @ 150 km/h (201.9 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	540.0 N @ 150 km/h (121.4 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	505 mm | 19.882 in
Depth, packed	386 mm | 15.197 in
Length, packed	2631 mm | 103.583 in
Weight, gross	44 kg | 97.003 lb

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Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
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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