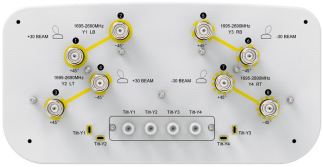
2VV-33B-R0VB-V2



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

- Enhances Network Capacity and Spectrum Utilization: Ideal for six-sector applications
- Versatile Adjustment: Manual tilt with indicators, and RET compatible with simple on-site “plug-in” replacement
- Consistent Performance: Ensures reliable performance across the entire band

General Specifications

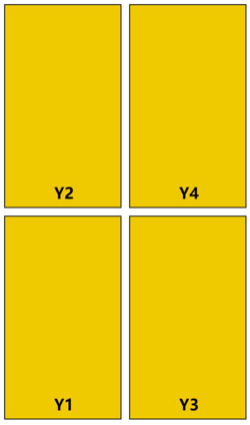
Antenna Type	Multibeam
Band	Single band
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Radiator Material	Aluminum
Reflector Material	Aluminum
RF Connector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

Dimensions

Width	397 mm | 15.63 in
Depth	197 mm | 7.756 in
Length	1997 mm | 78.622 in
Net Weight, antenna only	20.9 kg | 46.077 lb

Array Layout

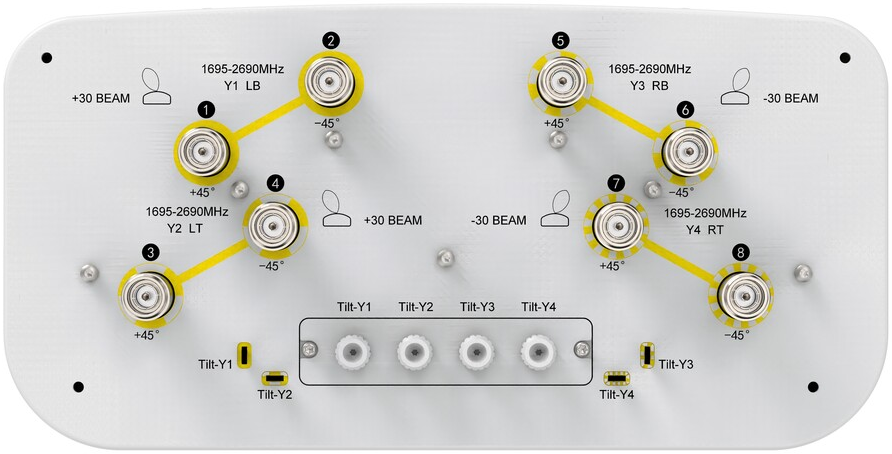
2VV-33B-R0VB-V2



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (N/A)	AISG No.	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	1,000 W

2VV-33B-R0VB-V2

Electrical Specifications

	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
Frequency Band, MHz	**1695–1995**	**1920–2300**	**2300–2500**	**2490–2690**
RF Port	1-8	1-8	1-8	1-8
Gain, dBi	18.8	19.1	19.8	19.8
Beam Centers, Horizontal, degrees	±30	±30	±30	±30
Beamwidth, Horizontal, degrees	39	35	30	28
Beamwidth, Vertical, degrees	9.8	8.8	7.5	6.9
Beam Tilt, degrees	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	16	21	21	20
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	29	31	30	29
Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25
Isolation, Beam to Beam, dB	25	25	25	25
VSWR | Return loss, dB	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
Input Power per Port, maximum, watts	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	**1695–1995**	**1920–2300**	**2300–2500**	**2490–2690**
Gain by all Beam Tilts, average, dBi	18.1	18.5	19.4	19.5
Gain by all Beam Tilts Tolerance, dB	±0.9	±0.7	±0.6	±0.4
Beamwidth, Horizontal Tolerance, degrees	±2	±3	±1	±1
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.7	±0.6	±0.4
CPR at Boresight, dB	20	23	26	23

Mechanical Specifications

Wind Loading @ Velocity, frontal	625.0 N @ 150 km/h (140.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	289.0 N @ 150 km/h (65.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	270.0 N @ 150 km/h (60.7 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

2VV-33B-ROVB-V2

Packaging and Weights

Width, packed	492 mm | 19.37 in
Depth, packed	317 mm | 12.48 in
Length, packed	2197 mm | 86.496 in
Weight, gross	31.7 kg | 69.886 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
UK-ROHS	Compliant

Included Products

BSAMNT-B95-04	–	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