VV-33A-R2VB-V2

4-port sector antenna, 4x 1695–2690 MHz, 33°HPBW, 2x RETs

- Narrow beamwidth capacity antenna for higher level of densification and enhanced data throughput
- Ideal for high gain corridor coverage or capacity optimization
- All Internal RET actuators are connected in "Cascaded SRET" configuration

General Specifications

Antenna Type	Sector
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	4
RF Connector Quantity, total	4

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity	1 female | 1 male
Input Voltage	10–30 Vdc
Internal RET	Mid band (2)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

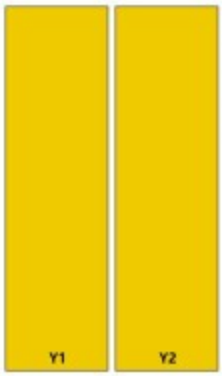
Dimensions

Width	497 mm | 19.567 in

VV-33A-R2VB-V2

Depth	127 mm | 5 in
Length	1497 mm | 58.937 in
Net Weight, without mounting kit	20.4 kg | 44.974 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
Y1	1695-2690	1 - 2	33°	1	AISG1	CPxxxxxxxxxxxxxxY1
Y2	1695-2690	3 - 4	33°	2	AISG1	CPxxxxxxxxxxxxxxY2

(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	500 W

Electrical Specifications

	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	**1695–1880**	**1850–1990**	**1920–2180**	**2300–2500**	**2500–2690**

VV-33A-R2VB-V2

RF Port	1-4	1-4	1-4	1-4	1-4
Gain, dBi	19.8	20.3	20.8	21.5	21.8
Beamwidth, Horizontal, degrees	37	34	32	29	26
Beamwidth, Vertical, degrees	7.4	7	6.6	5.9	5.5
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	20	24	24	18	18
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	32	33	33	35	33
CPR at Boresight, dB	25	25	26	24	23
Isolation, Cross Polarization, dB	28	28	28	28	28
Isolation, Inter-band, 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, maximum, watts	200	200	200	200	200

Mechanical Specifications

BASTA Version, mechanical	BASTA v11
Wind Loading @ Velocity, frontal	667.0 N @ 150 km/h (149.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	152.0 N @ 150 km/h (34.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	807.0 N @ 150 km/h (181.4 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	592 mm | 23.307 in
Depth, packed	247 mm | 9.724 in
Length, packed	1697 mm | 66.811 in
Weight, gross	29.6 kg | 65.257 lb

Regulatory Compliance/Certifications

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

VV-33A-R2VB-V2

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