

VV-65A-R2VB-V201



4-port sector antenna, 4x 1695–2690 MHz, 65°HPBW, 2x RET

- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- With tilt indicators and integrated internal RET model

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	13 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

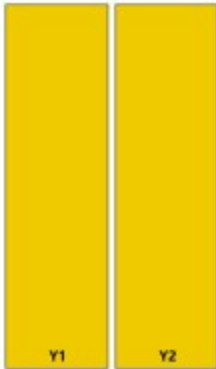
Width	257 mm 10.118 in
Depth	87 mm 3.425 in

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Length 1377 mm | 54.213 in

Net Weight, without mounting kit 9.3 kg | 20.503 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (RET1)	AISG No.	RET UID
Y1	1695-2690	1 - 2	65°	1	AISG1	ANxxxxxxxxxxxxxxxxY1
Y2	1695-2690	3 - 4	65°	2	AISG1	ANxxxxxxxxxxxxxxxxY2

(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	450 W

Electrical Specifications

	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	1695–1880	1850–1920	1920–2200	2300–2500	2500–2690

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RF Port	1-4	1-4	1-4	1-4	1-4
Gain, dBi	17.2	17.5	17.8	17.9	17.9
Beamwidth, Horizontal, degrees	67	65	64	63	59
Beamwidth, Vertical, degrees	7.1	6.8	6.4	5.7	5.3
Beam Tilt, degrees	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	16	17	19	21	20
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	31	32	33	32	31
CPR at Boresight, dB	25	27	31	27	25
Isolation, Cross Polarization, dB	30	30	30	30	30
Isolation, Inter-band, dB	30	30	30	30	30
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	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	200	200	200	200	200

Mechanical Specifications

Wind Loading @ Velocity, frontal	278.0 N @ 150 km/h (62.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	75.0 N @ 150 km/h (16.9 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	237.0 N @ 150 km/h (53.3 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	332 mm 13.071 in
Depth, packed	162 mm 6.378 in
Length, packed	1597 mm 62.874 in
Weight, gross	16 kg 35.274 lb

Regulatory Compliance/Certifications

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

* Footnotes

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Performance Note

Severe environmental conditions may degrade optimum performance