

VV-65A-R1B

4-port sector antenna, 4x 1695–2690 MHz, 65° HPBW, 1x RET and 1x SBT, the two highband arrays utilize a common tilt.



- The RET interface comprises one pair of AISG input/output ports

General Specifications

Antenna Type	Sector
Band	Single band
Color	Light gray
Grounding Type	RF connector body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	PVC, UV resistant
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, total	4

Remote Electrical Tilt (RET) Information

RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male
Input Voltage	10–30 Vdc
Internal Bias Tee	Port 1
Internal RET	High band (1)
Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	10 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	305 mm 12.008 in
Depth	118 mm 4.646 in

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Length	1390 mm 54.724 in
Net Weight, without mounting kit	11.2 kg 24.692 lb

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz
Polarization	±45°
Total Input Power, maximum	450 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	1695–1990	1920–2200	2300–2500	2490–2690
Gain, dBi	17.7	18.2	18.5	18.6
Beamwidth, Horizontal, degrees	66	66	63	62
Beamwidth, Vertical, degrees	6.7	6.1	5.4	5.2
Beam Tilt, degrees	0–12	0–12	0–12	0–12
USLS (First Lobe), dB	17	19	22	22
Front-to-Back Ratio at 180°, dB	31	32	29	31
Isolation, Cross Polarization, dB	30	30	30	30
Isolation, Inter-band, dB	28	28	28	28
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	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	250

Electrical Specifications, BASTA

Frequency Band, MHz	1695–1990	1920–2200	2300–2500	2490–2690
Gain by all Beam Tilts, average, dBi	17.4	17.9	18.3	18.2
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.4	±0.5
Gain by Beam Tilt, average, dBi	0° 17.3 6° 17.5 12° 17.3	0° 17.9 6° 18.0 12° 17.7	0° 18.0 6° 18.4 12° 18.1	0° 18.3 6° 18.4 12° 17.7
Beamwidth, Horizontal Tolerance, degrees	±2.6	±1.9	±2.1	±2.8
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.5	±0.2	±0.3
USLS, beampeak to 20° above beampeak, dB	17	17	19	17
Front-to-Back Total Power at 180° ±	26	27	26	26

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30°, dB

CPR at Boresight, dB	17	19	21	20
CPR at Sector, dB	15	14	8	9

Mechanical Specifications

Wind Loading at Velocity, frontal	112.4 lbf @ 150 km/h 494.0 N @ 150 km/h
Wind Loading at Velocity, lateral	102.0 N @ 150 km/h 22.9 lbf @ 150 km/h
Wind Loading at Velocity, rear	134.4 lbf @ 150 km/h 598.0 N @ 150 km/h
Wind Speed, maximum	241 km/h 149.75 mph

Packaging and Weights

Width, packed	413 mm 16.26 in
Depth, packed	249 mm 9.803 in
Length, packed	1525 mm 60.039 in
Weight, gross	19.5 kg 42.99 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted



Included Products

600899A-2	- 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.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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