VV-65B-R2

4-port sector antenna, 4x 1695–2690 MHz, 65° HPBW, 2x RET. Two pairs of AISG Input and Output ports to separately and independently control the RET on each array for operator sharing applications.

OBSOLETE

This product was discontinued on: November 30, 2023

Replaced By:

VV-65B-R1	4-port sector antenna, 4x 1695–2690 MHz, 65° HPBW, 1x RET . The two high band arrays utilize a common tilt.

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	PVC
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, mid 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	2 female | 2 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

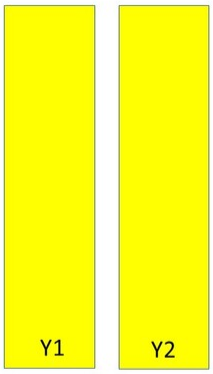
VV-65B-R2

Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	307 mm | 12.087 in
Depth	118 mm | 4.646 in
Length	1786 mm | 70.315 in
Net Weight, antenna only	13.9 kg | 30.644 lb

Array Layout



Left Right
Bottom

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

Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
Y1	1695-2690	1-2	1	ANxxxxxxxxxxxxxxx1
Y2	1695-2690	3-4	2	ANxxxxxxxxxxxxxxx2

Port Configuration

VV-65B-R2

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz
Polarization	±45°
Total Input Power, maximum	400 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	**1695–1990**	**1920–2300**	**2300–2500**	**2490–2690**
Beamwidth, Horizontal, degrees	66	65	61	57
Beamwidth, Vertical, degrees	5.4	4.8	4.3	4
Beam Tilt, degrees	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	19	18	19	18
Front-to-Back Ratio at 180°, dB	32	36	36	36
Front-to-Back Total Power at 180° ± 30°, dB	25	26	27	26
CPR at Boresight, dB	17	19	22	20
CPR at Sector, dB	10	10	8	9
Isolation, Cross Polarization, dB	30	30	30	30
Isolation, Inter-band, dB	30	30	30	30

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	300

Electrical Specifications, BASTA

Frequency Band, MHz	**1695–1990**	**1920–2300**	**2300–2500**	**2490–2690**
Gain by all Beam Tilts, average, dBi	18.3	19	19.2	19.3
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.4	±0.4	±0.5
Beamwidth, Horizontal Tolerance, degrees	±2.6	±1.8	±2.9	±4.2
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.4	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	16	16	15	13

Mechanical Specifications

Wind Loading @ Velocity, frontal	696.0 N @ 150 km/h (156.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	163.0 N @ 150 km/h (36.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	410 mm | 16.142 in
Depth, packed	270 mm | 10.63 in
Length, packed	1955 mm | 76.969 in
Weight, gross	24.5 kg | 54.013 lb

Regulatory Compliance/Certifications

Agency	**Classification**
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Above 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/Exempted
UK-ROHS	Compliant/Exempted

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