

V-65A-R1VB



2-port sector antenna, 2x 1695–2690 MHz, 65° HPBW, 1x RET

- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

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	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, mid band	2
RF Connector Quantity, total	2

Remote Electrical Tilt (RET) Information

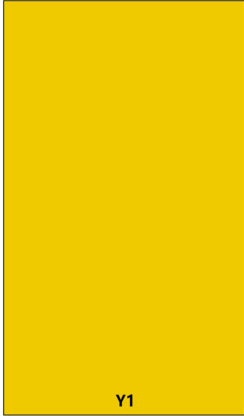
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male
Input Voltage	10–30 Vdc
Internal RET	Mid band (1)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

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Width	160 mm 6.299 in
Depth	115 mm 4.528 in
Length	1493 mm 58.78 in
Net Weight, antenna only	8.5 kg 18.739 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
Y1	1695-2690	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxY1

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

Port Configuration

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Electrical Specifications

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

Electrical Specifications

	Y1	Y1	Y1	Y1
Frequency Band, MHz	1695–1995	1920–2300	2300–2500	2490–2690
RF Port	1,2	1,2	1,2	1,2
Gain, dBi	17.6	18	18.5	18.5
Beamwidth, Horizontal, degrees	70	67	63	59
Beamwidth, Vertical, degrees	6.4	5.7	5.1	4.8

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Beam Tilt, degrees	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	17	18	15	17
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	26	26	27	27
Isolation, Cross Polarization, 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, 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	17.3	17.8	18.2	18.1
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3	±0.5	±0.6
Beamwidth, Horizontal Tolerance, degrees	±3	±3	±6	±3
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.3	±0.2
CPR at Boresight, dB	19	21	18	20

Mechanical Specifications

Wind Loading @ Velocity, frontal	112.0 N @ 150 km/h (25.2 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	199.0 N @ 150 km/h (44.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	208.0 N @ 150 km/h (46.8 lbf @ 150 km/h)

Packaging and Weights

Width, packed	285 mm 11.22 in
Depth, packed	240 mm 9.449 in
Length, packed	1730 mm 68.11 in
Weight, gross	13.6 kg 29.983 lb

Regulatory Compliance/Certifications

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

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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