

FFVV-65C-R2



8-port sector antenna, 4x 617-894 and 4x 1695-2690 MHz, 65° HPBW, 2x RET

- Antenna includes 2xSingle Column X-Pol Arrays for 617-894MHz and 2xSingle Column X-Pol Arrays for 1695-2690MHz

General Specifications

Antenna Type	Sector
Band	Multiband
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
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, mid band	4
RF Connector Quantity, low band	4
RF Connector Quantity, total	8

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	Low band (1) Mid band (1)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W

Dimensions

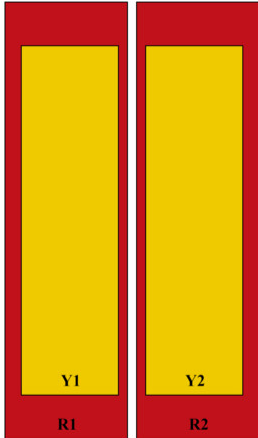
Width	498 mm 19.606 in
Depth	197 mm 7.756 in

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Length 2438 mm | 95.984 in

Net Weight, antenna only 40.6 kg | 89.508 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	617-894	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxxR1
R2	617-894	3 - 4			
Y1	1695-2690	5 - 6	2	AISG1	CPxxxxxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8			

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 617 – 894 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

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Frequency Band, MHz	617-698	698-894	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690
Gain at Mid Tilt, dBi	15.4	15.8	18.3	18.5	18.5	18.9	18.8
Beamwidth, Horizontal, degrees	65	63	68	69	68	55	45
Beamwidth, Vertical, degrees	10.3	8.9	5.6	5.3	5	4.5	4.2
Beam Tilt, degrees	2-13	2-13	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	17	20	21	21	19	17
Front-to-Back Ratio at 180°, dB	29	28	34	37	37	34	31
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25
VSWR Return loss, dB	1.5 14.0	1.5 14.0	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	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	200	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	617-698	698-894	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690
Gain by all Beam Tilts, average, dBi	14.7	15	17.4	17.8	17.8	18.1	18.1
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.4	±0.4	±0.4	±0.4	±0.5	±0.5
Beamwidth, Horizontal Tolerance, degrees	±6.7	±6.5	±4.6	±5	±5.2	±13.7	±6.4
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.9	±0.3	±0.2	±0.3	±0.2	±0.2
USLS, beampeak to 20° above beampeak, dB	17	16	16	16	15	15	14
Front-to-Back Total Power at 180° ± 30°, dB	22	22	28	32	31	29	28
CPR at Boresight, dB	17	16	18	20	20	18	20
CPR at Sector, dB	8	6	8	8	8	6	7

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.81 m ² 8.719 ft ²
Effective Projective Area (EPA), lateral	0.25 m ² 2.691 ft ²
Wind Loading @ Velocity, frontal	865.0 N @ 150 km/h (194.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	268.0 N @ 150 km/h (60.2 lbf @ 150 km/h)

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Wind Loading @ Velocity, maximum	1,037.0 N @ 150 km/h (233.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	595.0 N @ 150 km/h (133.8 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	565 mm 22.244 in
Depth, packed	309 mm 12.165 in
Length, packed	2685 mm 105.709 in
Weight, gross	61.4 kg 135.364 lb

Regulatory Compliance/Certifications

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



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.
BSAMNT-M	- Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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