

FFVV-65C-R3-V1

8-port sector antenna, 4x 617-894 and 4x 1695-2690 MHz, 65° HPBW, 3x RET



General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light gray
Effective Projective Area (EPA), frontal	0.99 m ² 10.656 ft ²
Effective Projective Area (EPA), lateral	0.33 m ² 3.552 ft ²
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, high band	4
RF Connector Quantity, low band	4
RF Connector Quantity, total	8

Remote Electrical Tilt (RET) Information, General

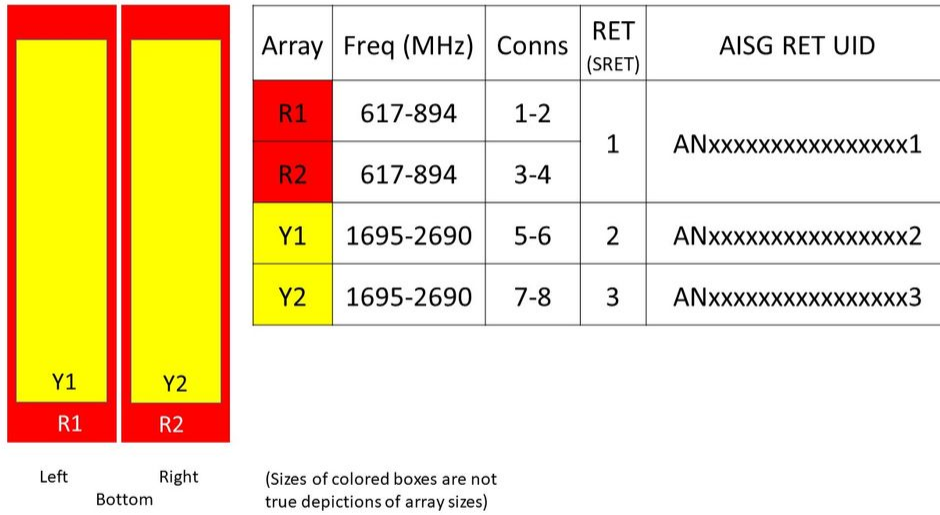
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male

Dimensions

Width	640 mm 25.197 in
Length	2437 mm 95.945 in
Depth	235 mm 9.252 in

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Array Layout



Port Configuration

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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 617 – 894 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Remote Electrical Tilt (RET) Information, Electrical

Protocol	3GPP/AISG 2.0 (Single RET)
Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	10 W
Input Voltage	10–30 Vdc
Internal RET	High band (2) Low band (1)

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Electrical Specifications

Frequency Band, MHz	617–698	698–894	1695–1880	1850–1990	1920–2200	2300–2500	2500–2690
Gain, dBi	16	16.3	17.6	18	18.6	18.5	18.6
Beamwidth, Horizontal, degrees	65	63	68	65	61	57	61
Beamwidth, Vertical, degrees	10.2	8.5	5.6	5.4	5.1	4.4	4.1
Beam Tilt, degrees	2–13	2–13	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	17	19	19	20	22	19	18
Front-to-Back Ratio at 180°, dB	30	33	34	38	36	31	32
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	28	28	28	28	28	28	28
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	-153	-153	-153	-153	-153	-153
Input Power per Port at 50° C, maximum, watts	250	250	200	200	200	200	150

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	15.5	15.8	17.3	17.7	18.2	18.2	18.2
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.6	±0.3	±0.4	±0.6	±0.4	±0.5
Gain by Beam Tilt, average, dBi	2° 15.4 7° 15.7 13° 15.6	2° 15.7 7° 16.0 13° 15.6	2° 17.2 7° 17.4 12° 17.3	2° 17.7 7° 17.8 12° 17.6	2° 18.0 7° 18.3 12° 18.2	2° 18.1 7° 18.5 12° 18.1	2° 18.1 7° 18.5 12° 18.0
Beamwidth, Horizontal Tolerance, degrees	±4	±5.9	±3.1	±3.9	±7	±7	±7.2
Beamwidth, Vertical Tolerance, degrees	±0.6	±1.1	±0.3	±0.4	±0.4	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB	16	12	14	16	17	15	14
Front-to-Back Total Power at 180° ± 30°, dB	22	22	28	30	27	26	27
CPR at Boresight, dB	15	15	20	22	19	16	23
CPR at Sector, dB	7	7	6	6	5	6	9

Mechanical Specifications

Wind Loading at Velocity, frontal

1,055.0 N @ 150 km/h | 237.2 lbf @ 150 km/h

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Wind Loading at Velocity, lateral	355.0 N @ 150 km/h 79.8 lbf @ 150 km/h
Wind Loading at Velocity, maximum	1,433.0 N @ 150 km/h 322.2 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 149.75 mph

Packaging and Weights

Width, packed	752 mm 29.606 in
Depth, packed	380 mm 14.961 in
Length, packed	2590 mm 101.969 in
Net Weight, without mounting kit	56.5 kg 124.561 lb
Weight, gross	83.2 kg 183.424 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
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant/Exempted



Included Products

- BSAMNT-4 — 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-M4 — 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