

FFVV-65A-R2-V1



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

- Meets -153dBc 3rd order PIM for 1695-2690MHz, using 2x40W carriers

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
Radiator Material	Aluminum Low loss circuit board
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

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

Dimensions

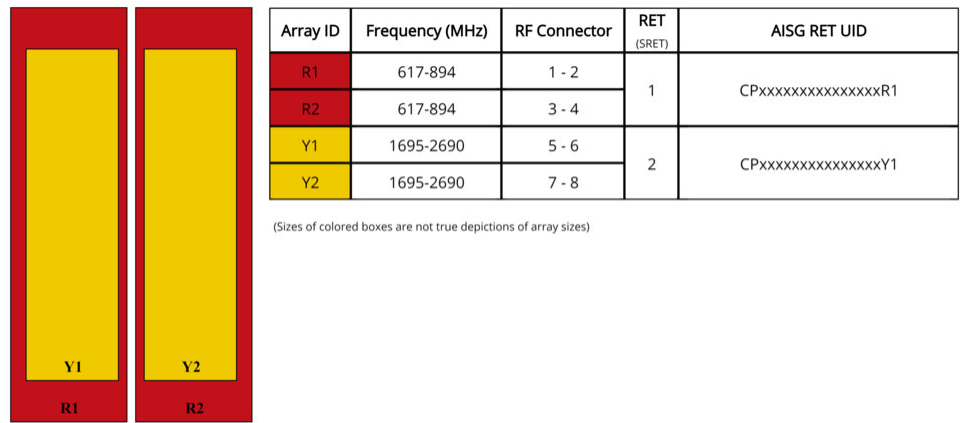
Width	640 mm 25.197 in
Depth	235 mm 9.252 in
Length	1224 mm 48.189 in

FFVV-65A-R2-V1

Net Weight, without mounting kit

33.2 kg | 73.193 lb

Array Layout



Port Configuration



Electrical Specifications

Impedance

50 ohm

Operating Frequency Band

1695 – 2690 MHz | 617 – 894 MHz

Polarization

±45°

FFVV-65A-R2-V1

Total Input Power, maximum

900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	617–698	698–806	806–894	1695–1880	1850–1990	1920–2200	2300–2500	2500–2690
Gain, dBi	12.6	13	13.2	16.3	16.7	17.4	17.6	18
Beamwidth, Horizontal, degrees	66	65	58	66	67	63	57	60
Beamwidth, Vertical, degrees	21.7	19	16.6	7.7	7.3	6.7	5.8	5.7
Beam Tilt, degrees	5–22	5–22	5–18	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	17	17	14	17	19	18	18	19
Front-to-Back Ratio at 180°, dB	27	31	30	34	35	35	34	33
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	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	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-153	-153					
PIM, 3rd Order, 2 x 40 W, dBc				-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250	250	200	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	617–698	698–806	806–894	1695–1880	1850–1990	1920–2200	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	12.2	12.5	12.6	15.8	16.4	17	17.3	17.6
Gain by all Beam Tilts Tolerance, dB	±0.8	±0.8	±0.8	±0.6	±0.4	±0.7	±0.5	±0.6
Beamwidth, Horizontal Tolerance, degrees	±5.3	±6.1	±5.2	±3.9	±3.4	±8.4	±7.2	±8.1
Beamwidth, Vertical Tolerance, degrees	±2	±1.3	±1.1	±0.4	±0.4	±0.6	±0.5	±0.5
USLS, beampeak to 20° above beampeak, dB				13	16	16	15	16
Front-to-Back Total Power at 180° ± 30°, dB	20	21	21	26	28	28	26	26
CPR at Boresight, dB	15	16	16	16	23	19	16	19
CPR at Sector, dB	7	9	7	7	9	5	6	7

Mechanical Specifications

FFVV-65A-R2-V1

Mechanical Tilt Range	0°–15°
Wind Loading @ Velocity, frontal	505.0 N @ 150 km/h (113.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	156.0 N @ 150 km/h (35.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	520.0 N @ 150 km/h (116.9 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	752 mm 29.606 in
Depth, packed	387 mm 15.236 in
Length, packed	1379 mm 54.291 in
Weight, gross	47.6 kg 104.94 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below 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
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.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 115 mm | 4.528 in

Compatible Diameter, minimum 60 mm | 2.362 in

Weight, net 6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 6.4 kg | 14.11 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Below 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
UK-ROHS	Compliant

