FFVV-65B-R2

8-port sector antenna, 4x 617-894 and 4x 1695-2200 MHz, 65° HPBW, 2x RET

- Antenna includes 2×Single Column X-Pol Arrays for 617-894MHz and 2×Single Column X-Pol Arrays for 1695-2200MHz

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, high band	0
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

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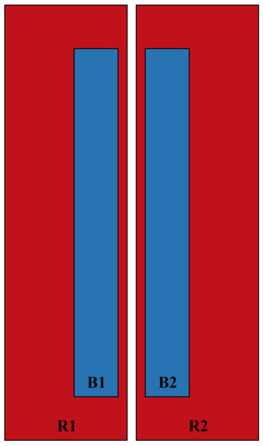
Depth	197 mm | 7.756 in
Length	1828 mm | 71.969 in
Net Weight, antenna only	28.6 kg | 63.052 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	617-894	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1
R2	617-894	3 - 4			
B1	1695-2200	5 - 6	2	AISG1	CPxxxxxxxxxxxxxxB1
B2	1695-2200	7 - 8			

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

Port Configuration

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2200 MHz | 617 – 894 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

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	R1,R2	R1,R2	B1,B2	B1,B2
Frequency Band, MHz	**617–728**	**814–894**	**1695–1780**	**1995–2200**
RF Port	1,2,3,4	1,2,3,4	5,6,7,8	5,6,7,8
Gain, dBi	14.6	15.3	18.1	18.8
Beamwidth, Horizontal, degrees	64	63	68	67
Beamwidth, Vertical, degrees	14.3	12.3	5.7	4.8
Beam Tilt, degrees	2–14	2–14	2–12	2–12
USLS (First Lobe), dB	15	16	17	18
Front-to-Back Ratio at 180°, dB	28	27	30	30
Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25
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	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	200	200

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.58 m² | 6.243 ft²
Effective Projective Area (EPA), lateral	0.18 m² | 1.938 ft²
Wind Loading @ Velocity, frontal	622.0 N @ 150 km/h (139.8 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	188.0 N @ 150 km/h (42.3 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	746.0 N @ 150 km/h (167.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	428.0 N @ 150 km/h (96.2 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	2015 mm | 79.331 in
Weight, gross	40.3 kg | 88.846 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

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REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

Included Products

BSAMNT-2F	–	Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance