

FFVV-65B-R2



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

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

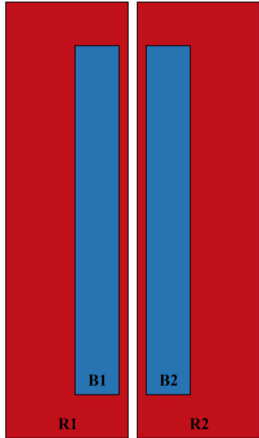
Width	498 mm 19.606 in
Depth	197 mm 7.756 in

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Length 1828 mm | 71.969 in

Net Weight, antenna only 32 kg | 70.548 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			
B1	1695-2200	5 - 6	2	AISG1	CPxxxxxxxxxxxxxxxxB1
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

R1,R2

R1,R2

B1,B2

B1,B2

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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

Electrical Specifications, BASTA

Frequency Band, MHz	617–728	814–894	1695–1780	1995–2200
Gain by all Beam Tilts, average, dBi	13.7	14.4	17.5	18.2
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.7	±0.4	±0.4
Beamwidth, Horizontal Tolerance, degrees	±8	±6	±3	±5
Beamwidth, Vertical Tolerance, degrees	±1	±0.7	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB		16	16	16
Front-to-Back Total Power at 180° ± 30°, dB	21	20	28	30
CPR at Boresight, dB	17	17	20	17
CPR at Sector, dB	9	8	9	8

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.58 m ² 6.243 ft ²
Effective Projective Area (EPA), lateral	0.18 m ² 1.938 ft ²
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)

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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 45.5 kg | 100.31 lb

Regulatory Compliance/Certifications

Agency

ISO 9001:2015

Classification

Designed, manufactured and/or distributed under this quality management system



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