

# FFVV-65B-R2-HG



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

- Antenna design optimized to offer high gain performances
- Broadband performance 617-894 MHz and 1695-2690 MHz

## General Specifications

Antenna Type	Sector
Band	Multiband
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
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

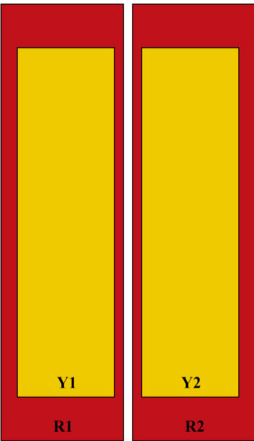
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female   8-pin DIN Male
RET Interface, quantity	1 female   1 male
Input Voltage	10–30 Vdc
Internal RET	Low band (1)   Mid band (1)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

## Dimensions

Width	640 mm   25.197 in
Depth	235 mm   9.252 in
Length	1828 mm   71.969 in
Net Weight, antenna only	45.2 kg   99.649 lb

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## 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			
Y1	1695-2690	5 - 6	2	AISG1	CPxxxxxxxxxxxxxxY1
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

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## Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	617-698	698-806	806-894	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690
RF Port	1-4	1-4	1-4	5-8	5-8	5-8	5-8	5-8
Gain, dBi	14.5	15.1	15.9	18.4	18.8	19.1	19.4	19.6
Beamwidth, Horizontal, degrees	67	64	58	65	58	60	52	51
Beamwidth, Vertical, degrees	12.8	11.5	10.5	5.1	4.8	4.5	4	3.8
Beam Tilt, degrees	2-12	2-12	2-12	2-9	2-9	2-9	2-9	2-9
USLS (First Lobe), dB	18	17	15	16	18	18	17	17
Front-to-Back Ratio at 180°, dB	29	33	34	37	39	37	33	31
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	-150	-150	-150	-150	-150	-150	-150
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
CPR at Boresight, dB	16	17	17	20	23	20	22	19

## Mechanical Specifications

Wind Loading @ Velocity, frontal	715.0 N @ 150 km/h (160.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	206.0 N @ 150 km/h (46.3 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	911.0 N @ 150 km/h (204.8 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	446.0 N @ 150 km/h (100.3 lbf @ 150 km/h)
Wind Speed, maximum	241.4 km/h (150 mph)

## Packaging and Weights

Width, packed	752 mm   29.606 in
Depth, packed	387 mm   15.236 in
Length, packed	1982 mm   78.032 in

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**Weight, gross** 58.4 kg | 128.75 lb

## Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	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.
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## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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