

# 3FF6VV-2010B-R2B



36 port multibeam ultra-high capacity antenna, 3 beams for 617-894 MHz, 6 beams for 1695-2690 MHz, 4 ports for each beam, 1x RET per band

- Ultra-high capacity antenna provides increased throughput for special events or very high traffic locations
- Provides higher capacity than single radio massive MIMO solution
- Multi-beam antenna with 3x LB beams, and 6x MB beam
- All beams support 4T4R service or 2T2R service for 2 licensed bands
- One RET and one SBT on each band for remote optimization and RET control

## General Specifications

Antenna Type	Multibeam
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
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, mid band	24
RF Connector Quantity, low band	12
RF Connector Quantity, total	36

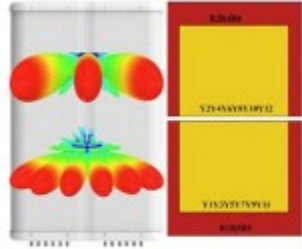
## Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	8-pin DIN Female   8-pin DIN Male
RET Interface, quantity	2 female   2 male
Input Voltage	10–30 Vdc
Internal Bias Tee	Port 1   Port 13
Internal RET	Low band (1)   Mid band (1)

# 3FF6VV-2010B-R2B

Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Dimensions	
Width	1300 mm   51.181 in
Depth	235 mm   9.252 in
Length	1800 mm   70.866 in
Net Weight, antenna only	120 kg   264.554 lb

## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET SSBT	AISG No.	SBT RF PORT	SBT No.	RET UID
R1	617-894	1 - 2	1	AISG1	1	1	CPxxxxxxxxxxxxxxxxR1
R2	617-894	3 - 4					
R3	617-894	5 - 6					
R4	617-894	7 - 8					
R5	617-894	9 - 10					
R6	617-894	11 - 12					
Y1	1695-2690	13 - 14	2	AISG2	13	2	CPxxxxxxxxxxxxxxxxY1
Y2	1695-2690	15 - 16					
Y3	1695-2690	17 - 18					
Y4	1695-2690	19 - 20					
Y5	1695-2690	21 - 22					
Y6	1695-2690	23 - 24					
Y7	1695-2690	25 - 26					
Y8	1695-2690	27 - 28					
Y9	1695-2690	29 - 30					
Y10	1695-2690	31 - 32					
Y11	1695-2690	33 - 34					
Y12	1695-2690	35 - 36					

## Port Configuration

# 3FF6VV-2010B-R2B



## Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz   617 – 894 MHz
Polarization	±45°
Total Input Power, maximum	2,880 W

## Electrical Specifications

	R1-R4	R1-R4	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	617–698	698–894	1695–1990	1920–2180	2300–2690
RF Port	1-12	1-12	13-36	13-36	13-36
Beam Centers, Horizontal, degrees	±0 ±30	±0 ±30	±8 ±24 ±40	±8 ±24 ±40	±8 ±24 ±40
Beamwidth, Horizontal, degrees	26	22	11	11	9
Beamwidth, Vertical, degrees	30.4	26.7	13.4	12.3	10.1
Beam Tilt, degrees	6–14	6–14	4–10	4–10	4–10
USLS (First Lobe), dB	17	16	9	9	9

# 3FF6VV-2010B-R2B

Front-to-Back Ratio at 180°, dB	27	33	31	29	27
Isolation, Cross Polarization, dB	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25
Isolation, Beam to Beam, dB	15	16	19	19	18
VSWR   Return loss, dB	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	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	120	120	120	120	120

## Mechanical Specifications

Wind Loading @ Velocity, frontal	2,988.0 N @ 150 km/h (671.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	659.0 N @ 150 km/h (148.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	2,988.0 N @ 150 km/h (671.7 lbf @ 150 km/h)

## Packaging and Weights

Width, packed	1500 mm   59.055 in
Depth, packed	575 mm   22.638 in
Length, packed	2000 mm   78.74 in
Weight, gross	200 kg   440.924 lb

## Regulatory Compliance/Certifications

Agency	Classification
UK-ROHS	Compliant

## Included Products

BSAMNT-8	–	Wide Profile Antenna Down tilt Mounting Kit for 3.0 - 4.5 in (75 - 115mm) 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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