

# 6VV-10A-F6



24-port multibeam antenna, 24x 1695–2690 MHz, 6x 10-14° HPBW, fixed electrical tilt, 1.3m length

- Provides 6 beams, Each supporting 4xMIMO for high capacity at venues or special events
- Covers the entire mid-band, including bands 1,3,7,25,66,30,38,40,41
- Increases capacity density for maximum throughput

## General Specifications

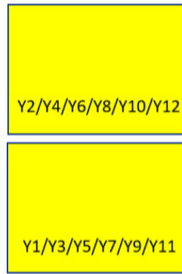
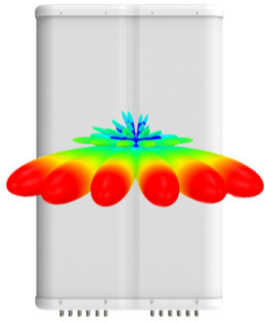
<b>Antenna Type</b>	Multibeam
<b>Band</b>	Single band
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, mid band</b>	24
<b>RF Connector Quantity, total</b>	24

## Dimensions

<b>Width</b>	970 mm   38.189 in
<b>Depth</b>	235 mm   9.252 in
<b>Length</b>	1300 mm   51.181 in
<b>Net Weight, antenna only</b>	50.2 kg   110.672 lb

## Array Layout

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Bottom

Array	Freq (MHz)	Conns	AZ Pan angles
Y1	1695-2690	1-2	+40°
Y2	1695-2690	3-4	
Y3	1695-2690	5-6	+24°
Y4	1695-2690	7-8	
Y5	1695-2690	9-10	+8°
Y6	1695-2690	11-12	
Y7	1695-2690	13-14	-8°
Y8	1695-2690	15-16	
Y9	1695-2690	17-18	-24°
Y10	1695-2690	19-20	
Y11	1695-2690	21-22	-40°
Y12	1695-2690	23-24	

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

## Port Configuration



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	2,000 W

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## Electrical Specifications

	Y1-Y12	Y1-Y12	Y1-Y12	Y1-Y12	Y1-Y12
<b>Frequency Band, MHz</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>	<b>2300–2500</b>	<b>2500–2690</b>
<b>RF Port</b>	P1-P24	P1-P24	P1-P24	P1-P24	P1-P24
<b>Gain, dBi</b>	20.5	21	21.3	22.1	22.1
<b>Beam Centers, Horizontal, degrees</b>	±8 ±24 ±40	±8 ±24 ±40	±8 ±24 ±40	±8 ±24 ±40	±8 ±24 ±40
<b>Beam Crossover, dB</b>	8	8	9	11	12
<b>Beamwidth, Horizontal, degrees</b>	12	11	11	10	9
<b>Beamwidth, Vertical, degrees</b>	15.7	14.3	13.7	11.5	10.8
<b>Beam Tilt, degrees</b>	6	6	6	6	6
<b>USLS (First Lobe), dB</b>	16	15	15	15	15
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25
<b>Isolation, Beam to Beam, dB</b>	19	19	19	19	18
<b>VSWR   Return loss, dB</b>	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153	-153
<b>Input Power per Port at 50°C, maximum, watts</b>	100	100	100	100	100

## Electrical Specifications, BASTA

	1695–1880	1850–1990	1920–2200	2300–2500	2500–2690
<b>Frequency Band, MHz</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>	<b>2300–2500</b>	<b>2500–2690</b>
<b>Gain by all Beam Tilts, average, dBi</b>	19.8	20.4	20.6	21.3	21.2
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	29	29	28	24	23
<b>CPR at Boresight, dB</b>	16	23	22	16	20

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	1,612.0 N @ 150 km/h (362.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	492.0 N @ 150 km/h (110.6 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	1,612.0 N @ 150 km/h (362.4 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	1122 mm   44.173 in
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<b>Depth, packed</b>	561 mm   22.087 in
<b>Length, packed</b>	1566 mm   61.654 in
<b>Weight, gross</b>	75.9 kg   167.331 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
UK-ROHS	Compliant

## Included Products

BSAMNT-9	–	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

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