

# 6V-10M-F6



12-port multibeam antenna, 12x 1695–2690 MHz, 6x 10-14° HPBW, fixed electrical tilt

- Provides 6 beams covering 1.695-2.69 GHz in 16 deg sectors
- Covers the entire mid-band, including bands 1,3,7,25,66,30,38,40,41
- Increases capacity density for maximum throughput
- Novel design produces stable beam peak positions at mid band
- Each beam supports 2x2 MIMO for high capacity at venues or special events

## General Specifications

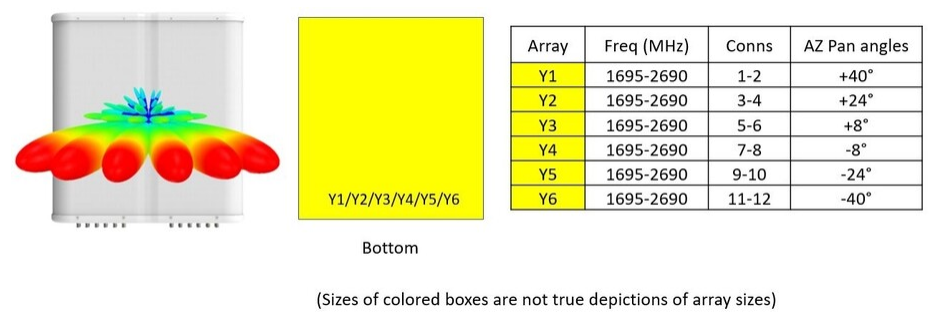
Antenna Type	Multibeam
Band	Single band
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	0
RF Connector Quantity, mid band	12
RF Connector Quantity, low band	0
RF Connector Quantity, total	12

## Dimensions

Width	970 mm   38.189 in
Depth	235 mm   9.252 in
Length	700 mm   27.559 in
Net Weight, antenna only	30 kg   66.139 lb

## Array Layout

# 6V-10M-F6



## Port Configuration



## Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz
Polarization	±45°
Total Input Power, maximum	1,000 W

## Electrical Specifications

	Y1-Y6	Y1-Y6	Y1-Y6	Y1-Y6	Y1-Y6
Frequency Band, MHz	1695–1880	1850–1990	1920–2180	2300–2500	2500–2690
RF Port	P1-P12	P1-P12	P1-P12	P1-P12	P1-P12

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Gain, dBi	20.7	21.2	21.4	22.2	22.1
Beam Centers, Horizontal, degrees	±8 ±24 ±40	±8 ±24 ±40	±8 ±24 ±40	±8 ±24 ±40	±8 ±24 ±40
Beam Crossover, dB	7	8	9	10	13
Beamwidth, Horizontal, degrees	12	11	11	10	9
Beamwidth, Vertical, degrees	15.4	14.2	13.6	11.6	10.7
Beam Tilt, degrees	6	6	6	6	6
USLS (First Lobe), dB	15	15	15	15	15
Isolation, Cross Polarization, dB	25	25	25	25	25
Isolation, Beam to Beam, dB	19	19	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	200	200	200	200	200

## Mechanical Specifications

Wind Loading @ Velocity, frontal	868.0 N @ 150 km/h (195.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	265.0 N @ 150 km/h (59.6 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	868.0 N @ 150 km/h (195.1 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

## Packaging and Weights

Width, packed	1084 mm   42.677 in
Depth, packed	365 mm   14.37 in
Length, packed	816 mm   32.126 in
Weight, gross	43 kg   94.799 lb

## Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted

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## Included Products

- BSAMNT-4
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- 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.

## \* Footnotes

**Performance Note**

Severe environmental conditions may degrade optimum performance