### 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 MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

**RF Connector Interface** 4.3-10 Female

RF Connector Location Bottom
RF Connector Quantity, mid band 12
RF Connector Quantity, total 12

#### Dimensions

 Width
 970 mm | 38.189 in

 Depth
 235 mm | 9.252 in

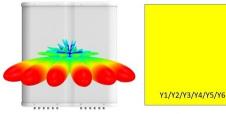
 Length
 700 mm | 27.559 in

 Net Weight, antenna only
 30 kg | 66.139 lb

### Array Layout



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Array	Freq (MHz)	Conns	AZ Pan angles
Y1	1695-2690	1-2	+40°
Y2	1695-2690	3-4	+24°
Y3	1695-2690	5-6	+8°
Y4	1695-2690	7-8	-8°
Y5	1695-2690	9-10	-24°
Y6	1695-2690	11-12	-40°

Bottom

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

### **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
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 at 50°C, maximum, watts	100	100	100	100	100

Electrical Specifications, BASTA

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Frequency Band, MHz	1695-1880	1850-1990	1920-2180	2300-2500	2500-2690
Gain by all Beam Tilts, average, dBi	20	20.6	20.8	21.4	21.3
Front-to-Back Total Power at 180° ± 30°, dB	29	28	28	24	21
CPR at Boresight, dB	16	23	22	17	20

### 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



#### Included Products

BSAMNT-4 — 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

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