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	Multi-beam
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

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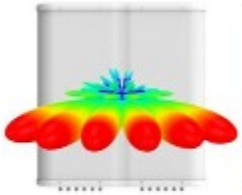
6V-10M-F6



Bottom

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°

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

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
Gain, dBi	20.7	21.2	21.4	22.2	22.1
Beam Centers, Horizontal,	±8 ±24	±8 ±24	±8 ±24	±8 ±24	±8 ±24

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degrees	±40	±40	±40	±40	±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
CPR at Boresight, dB	16	23	22	17	20
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	–	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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