

# 5V-12A-R5

10-port multibeam antenna, 10x 1710–2690 MHz, 5x 10-14° HPBW, 5x RET



- Provides 5 beams, Supporting for high capacity at venues or special events
- Increases capacity density for maximum throughput
- Antenna is equipped with 5 RETs motors to provide independent electrical tilt control for each beam
- Novel design produces stable beam peak positions

## 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>	10
<b>RF Connector Quantity, total</b>	10

## Remote Electrical Tilt (RET) Information


<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	Mid band (5)
<b>Power Consumption, active state, maximum</b>	10 W
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

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## Dimensions

<b>Width</b>	749 mm   29.488 in
<b>Depth</b>	197 mm   7.756 in
<b>Length</b>	1042 mm   41.024 in
<b>Net Weight, without mounting kit</b>	40 kg   88.185 lb

## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	RET UID
Y1	1710-2690	1-2	1	AISG1	CPxxxxxxxxxxxxxxY1
Y2	1710-2690	3-4	2	AISG1	CPxxxxxxxxxxxxxxY2
Y3	1710-2690	5-6	3	AISG1	CPxxxxxxxxxxxxxxY3
Y4	1710-2690	7-8	4	AISG1	CPxxxxxxxxxxxxxxY4
Y5	1710-2690	9-10	5	AISG1	CPxxxxxxxxxxxxxxY5

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

## Port Configuration



## Electrical Specifications

<b>Impedance</b>	50 ohm
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<b>Operating Frequency Band</b>	1710 – 2690 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	1,000 W

## Electrical Specifications

	<b>Y1-Y5</b>	<b>Y1-Y5</b>	<b>Y1-Y5</b>	<b>Y1-Y5</b>
<b>Frequency Band, MHz</b>	<b>1710–1920</b>	<b>1920–2180</b>	<b>2300–2500</b>	<b>2500–2690</b>
<b>RF Port</b>	1-10	1-10	1-10	1-10
<b>Gain, dBi</b>	21	21.6	21.8	22
<b>Beam Centers, Horizontal, degrees</b>	±0 ±20 ±40	±0 ±20 ±40	±0 ±20 ±40	±0 ±20 ±40
<b>Beamwidth, Horizontal, degrees</b>	14	13	11	10
<b>Beamwidth, Vertical, degrees</b>	9.9	9	7.7	7.2
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	20	20	18	17
<b>Front-to-Back Ratio at 180°, dB</b>	33	35	31	31
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25
<b>Isolation, Beam to Beam, dB</b>	17	17	17	17
<b>VSWR   Return loss, dB</b>	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
<b>Input Power per Port, maximum, watts</b>	200	200	200	200

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	1,000.0 N @ 150 km/h (224.8 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	96.0 N @ 150 km/h (21.6 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	1,000.0 N @ 150 km/h (224.8 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	910 mm   35.827 in
<b>Depth, packed</b>	368 mm   14.488 in
<b>Length, packed</b>	1278 mm   50.315 in
<b>Weight, gross</b>	55.2 kg   121.695 lb

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## 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-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.
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## \* Footnotes

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