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

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, mid band	10
RF Connector Quantity, total	10

Remote Electrical Tilt (RET) Information

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

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Dimensions

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

Array Layout

Bottom

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

Impedance	50 ohm

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Operating Frequency Band	1710 – 2690 MHz
Polarization	±45°
Total Input Power, maximum	1,000 W

Electrical Specifications

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

Mechanical Specifications

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

Packaging and Weights

Width, packed	910 mm | 35.827 in
Depth, packed	368 mm | 14.488 in
Length, packed	1278 mm | 50.315 in
Weight, gross	55.2 kg | 121.695 lb

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5V-12A-R5

Regulatory Compliance/Certifications

Agency	Classification
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.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance

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