

14-port sector antenna, 2x 694–960 and 4x 1695-2690 MHz 65° HPBW and 8x 1695-2400 MHz 4x 33° HPBW, 7x RET.

• All Internal RET actuators are connected in "Cascaded SRET" configuration

OBSOLETE

This product was discontinued on: March 31, 2023

Replaced By:

RVV2VV-6533D-R7

14-port sector antenna, 2x 694-960 and 4x 1695-2690 MHz 65° HPBW and 8x 1710-2690 MHz 4x 33°

HPBW, 7x RET.

General Specifications

Antenna Type Multibeam

Band Multiband

Grounding TypeRF 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, high band 12
RF Connector Quantity, mid band 0
RF Connector Quantity, low band 2
RF Connector Quantity, total 14

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

RET Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 2 female | 2 male

Input Voltage 10-30 Vdc

COMMSCOPE®

Internal RET High band (6) | Low band (1)

Power Consumption, idle state, maximum 1 W

Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

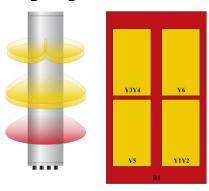
Width 498 mm | 19.606 in

Depth 197 mm | 7.756 in

Length 2688 mm | 105.827 in

Net Weight, without mounting kit 55.6 kg | 122.577 lb

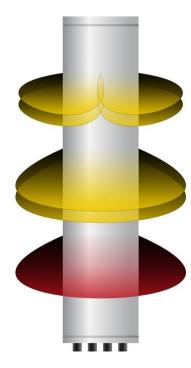
Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	RET UID
R1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxR1
Y1	1695-2400	3 - 4	33° 2 AISG1 CP		CPxxxxxxxxxxxxxY1	
Y2	1695-2400	5 - 6	33°	3	AISG1	CPxxxxxxxxxxxxxxY2
Y3	1695-2400	7 - 8	33°	4	AISG1	CPxxxxxxxxxxxxxXY3
Y4	1695-2400	9 - 10	33°	5	AISG1	CPxxxxxxxxxxxxxY4
Y5	1695-2690	11 - 12	65°	6	AISG1	CPxxxxxxxxxxxxxxY5
Y6	1695-2690	13 - 14	65°	7	AISG1	CPxxxxxxxxxxxxxY6

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

Beams Configuration



Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2400 MHz | 1695 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 1,000 W @ 50 °C

Electrical Specifications

	R1	R1	R1	Y1-Y4	Y1-Y4	Y5&Y6	Y5&Y6	Y5&Y6
Frequency Band, MHz	694-790	790-890	880-960	1695-192	0 1920-240	0 1695-192	0 1920-218	0 2300-2690
Gain, dBi	16.5	16.4	16.9	17.6	18.9	17.3	18.3	18.6
Beam Centers, Horizontal, degrees				±27	±27			
Beamwidth, Horizontal, degrees	62	63	59	34	29	67	64	59
Beamwidth, Vertical, degrees	8.5	7.7	7.1	7.6	6.4	6.3	5.6	4.9
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	18	19	18	17	17	18	19
Front-to-Back Ratio at 180°,	34	31	31	36	35	36	36	29

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dB								
Isolation, Cross Polarization, dB	28	28	28	25	25	28	28	28
Isolation, Inter-band, dB	30	30	30	30	30	30	30	30
VSWR Return loss, dB	1.46 14.5	1.46 14.5	1.46 14.5	1.46 14.5	1.46 14.5	1.46 14.5	1.46 14.5	1.46 14.5
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	300	250	250	250	250	200
Input Total Power per Antenna at 50°C, maximum, watts	300	300	300	250	250	250	250	250

Mechanical Specifications

Effective Projective Area (EPA), frontal $1 \text{ m}^2 \mid 10.764 \text{ ft}^2$ Effective Projective Area (EPA), lateral $0.35 \text{ m}^2 \mid 3.767 \text{ ft}^2$

 Wind Loading @ Velocity, frontal
 1,070.0 N @ 150 km/h (240.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 375.0 N @ 150 km/h (84.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,385.0 N @ 150 km/h (311.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 880.0 N @ 150 km/h (197.8 lbf @ 150 km/h)

Wind Speed, maximum 241.4 km/h (150 mph)

Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 2935 mm | 115.551 in

 Weight, gross
 76.56 kg | 168.786 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
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

