RRVV-65A-R4VB02

8-port sector antenna, 4x 698–960 and 4x 1710–2690 MHz, 65°HPBW, 4x RET.

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Antenna with integrated pluggable RET
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

General Specifications

Antenna Type	Sector
Band	Multiband
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	4
RF Connector Quantity, low band	4
RF Connector Quantity, total	8

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	Low band (2) | Mid band (2)
Power Consumption, active state, maximum	13 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

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Width	469 mm | 18.465 in
Depth	198 mm | 7.795 in
Length	1500 mm | 59.055 in
Net Weight, without mounting kit	18.3 kg | 40.345 lb

Array Layout

Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	RET UID
R1	698-960	1 - 2	1	AISG1	ANxxxxxxxxxxxxxxR1
R2	698-960	3 - 4	2	AISG1	ANxxxxxxxxxxxxxxR2
Y1	1710-2690	5 - 6	3	AISG1	ANxxxxxxxxxxxxxxY1
Y2	1710-2690	7 - 8	4	AISG1	ANxxxxxxxxxxxxxxY2

Sizes of colored boxes are not true depictions of array sizes

Port Configuration

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1710 – 2690 MHz | 698 – 960 MHz
Polarization	±45°

Total Input Power, maximum	900 W

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	**698–806**	**790–894**	**890–960**	**1710–1995**	**1920–2300**	**2300–2500**	**2490–2690**
RF Port	1-4	1-4	1-4	5-8	5-8	5-8	5-8
Gain, dBi	14.4	15	15.1	17.8	18.1	18.4	18.5
Beamwidth, Horizontal, degrees	68	62	58	64	63	61	59
Beamwidth, Vertical, degrees	14.9	13.6	12.7	6.5	6	5.4	5
Beam Tilt, degrees	2–14	2–14	2–14	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	16	17	16	15	17	20	20
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	25	27	25	29	30	30	29
CPR at Boresight, dB	20	26	23	18	18	19	20
Isolation, Cross Polarization, dB	25	25	25	28	28	28	28
Isolation, Inter-band, dB	25	25	25	27	27	27	27
VSWR | Return loss, dB	1.5 | 14.0	1.5 | 14.0	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	-153	-153
Input Power per Port, maximum, watts	250	250	250	200	200	200	200

Mechanical Specifications

Wind Loading @ Velocity, frontal	394.0 N @ 150 km/h (88.6 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	206.0 N @ 150 km/h (46.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	419.0 N @ 150 km/h (94.2 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

Packaging and Weights

Width, packed	544 mm | 21.417 in
Depth, packed	273 mm | 10.748 in
Length, packed	1720 mm | 67.717 in
Weight, gross	27.2 kg | 59.966 lb

Regulatory Compliance/Certifications

RRVV-65A-R4VB02

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.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

Included Products

BSAMNT-B95-01A	–	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