

V4-65A-R4VB



8-port sector antenna, 8x 1695–2690 MHz, 65° HPBW, 4x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- All RETs have a tilt indicator rod

General Specifications

Antenna Type	Sector
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
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	8
RF Connector Quantity, low band	0
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	Mid band (4)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

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Width	497 mm 19.567 in
Depth	127 mm 5 in
Length	1397 mm 55 in
Net Weight, antenna only	21.1 kg 46.517 lb

Array Layout

Y1

Y2

Y3

Y4

Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
Y1	1695-2690	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxY1
Y2	1695-2690	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxY2
Y3	1695-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxY3
Y4	1695-2690	7 - 8	65°	4	AISG1	CPxxxxxxxxxxxxxY4

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

Port Configuration



Electrical Specifications

V4-65A-R4VB

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz
Polarization	±45°
Total Input Power, maximum	700 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	1695–1990	1920–2300	2300–2500	2490–2690
Beamwidth, Horizontal, degrees	66	61	60	59
Beamwidth, Vertical, degrees	6.9	6.2	5.4	5
Beam Tilt, degrees	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	24	24	17	15
Front-to-Back Ratio at 180°, dB	35	35	36	33
Front-to-Back Total Power at 180° ± 30°, dB	27	28	28	27
CPR at Boresight, dB	25	27	25	22
Isolation, Cross Polarization, dB	28	28	28	28
Isolation, Inter-band, dB	28	28	28	28
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	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	150	150	150	150

Mechanical Specifications

Wind Loading @ Velocity, frontal	620.0 N @ 150 km/h (139.4 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	140.0 N @ 150 km/h (31.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	750.0 N @ 150 km/h (168.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	592 mm 23.307 in
Depth, packed	247 mm 9.724 in
Length, packed	1597 mm 62.874 in
Weight, gross	30.6 kg 67.461 lb

Regulatory Compliance/Certifications

V4-65A-R4VB

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-B95-03	–	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

Performance Note	Severe environmental conditions may degrade optimum performance
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