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, mid band	8
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

Width	497 mm | 19.567 in
Depth	127 mm | 5 in

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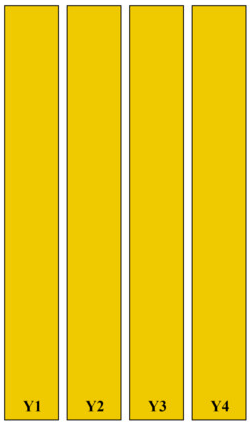
V4-65A-R4VB

Length	1397 mm | 55 in
Net Weight, antenna only	21.1 kg | 46.517 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
Y1	1695-2690	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxxY1
Y2	1695-2690	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxxY2
Y3	1695-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxxxY3
Y4	1695-2690	7 - 8	65°	4	AISG1	CPxxxxxxxxxxxxxxxY4

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

Port Configuration

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz

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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
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

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

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V4-65A-R4VB

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.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance

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