

12-port sector antenna, 4x 698–960 and 8x 1710–2690 MHz, 65° HPBW, 6x RET with manual override. Bands cascaded SRET (Antenna 1 and Antenna 2).

#### **OBSOLETE**

This product was discontinued on: March 31, 2022

Replaced By:

RRV4-65A-R6 12-port sector antenna, 4x 694-960 and 8x 1695-2690 MHz, 65° HPBW, 6x RET

### General Specifications

Antenna Type Sector

Band Multiband

**Grounding Type**RF connector inner conductor and body grounded to reflector and

mounting bracket

Performance NoteOutdoor usageRadome MaterialASA, UV stabilized

Radiator Material Brass | Low loss circuit board

Reflector Material Aluminum

**RF Connector Interface** 7-16 DIN Female

**RF Connector Location** Bottom

RF Connector Quantity, high band 8
RF Connector Quantity, low band 4
RF Connector Quantity, total 12

### Remote Electrical Tilt (RET) Information

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 (4) | Low band (2)

Power Consumption, idle state, maximum 2 W

Power Consumption, normal conditions, maximum 13 W

Protocol 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

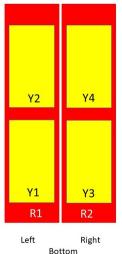
 Width
 641 mm | 25.236 in

 Depth
 244 mm | 9.606 in

 Length
 1607 mm | 63.268 in

 Net Weight, without mounting kit
 49 kg | 108.026 lb

### Array Layout



Ar	ray	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
F	R1	698-960	1-2	1	CPxxxxxxxxxxxxxR1
F	R2	698-960	3-4	2	CPxxxxxxxxxxxxxR2
١	/1	1710-2690	5-6	3	CPxxxxxxxxxxxxY1
١	/2	1710-2690	7-8	4	CPxxxxxxxxxxxxXY2
١	/3	1710-2690	9-10	5	CPxxxxxxxxxxxxXY3
١	/4	1710-2690	11-12	6	CPxxxxxxxxxxxx4

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

## **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1710 – 2690 MHz | 698 – 960 MHz

Polarization ±45°

## **Electrical Specifications**

Frequency Band, MHz	698-790	790-890	890-960	1710-1920	1920-2170	2300-2690
Gain, dBi	14.2	14.8	15.1	15.1	16.4	16.9
Beamwidth, Horizontal,	65	63	60	62	57	58

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degrees						
Beamwidth, Vertical, degrees	16.3	14.5	13.3	13.7	12.1	9.9
Beam Tilt, degrees	0-10	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	18	18	18	18	18	18
Front-to-Back Ratio at 180°, dB	32	31	29	29	32	32
CPR at Boresight, dB	23	16	15	22	21	14
CPR at Sector, dB	15	13	11	11	10	3
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	30	30	30	30
VSWR   Return loss, dB	1.43   15.0	1.43   15.0	1.43   15.0	1.5   14.0	1.5   14.0	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	300	300	300	250	250	250

## Electrical Specifications, BASTA

Frequency Band, MHz	698-790	790-890	890-960	1710-1920	1920-2170	2300-2690
Gain by all Beam Tilts, average, dBi	13.8	14.4	14.8	14.9	15.9	16.5
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3	±0.2	±0.7	±0.4	±0.6
Gain by Beam Tilt, average, dBi	0° 13.8 5° 13.8 10° 13.8	0° 14.4 5° 14.4 10° 14.4	0° 14.8 5° 14.8 10° 14.8	0° 15.0 5° 14.9 10° 14.8	0° 16.0 5° 15.9 10° 15.6	0° 16.6 5° 16.6 10° 16.3
Beamwidth, Horizontal Tolerance, degrees	±2.3	±2.3	±2.4	±5	±2.6	±5.3
Beamwidth, Vertical Tolerance, degrees	±1	±0.8	±0.4	±1	±1	±0.9
USLS, beampeak to 20° above beampeak, dB	18	18	18	18	18	18
Front-to-Back Total Power at 180° ± 30°, dB	26	26	24	29	31	31
CPR at Boresight, dB	22	16	15	22	21	14
CPR at Sector, dB	15	12	11	11	10	3

# Mechanical Specifications

 Wind Loading @ Velocity, frontal
 1,296.0 N @ 150 km/h (291.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 274.0 N @ 150 km/h (61.6 lbf @ 150 km/h)

**Wind Loading @ Velocity, rear** 1,367.0 N @ 150 km/h (307.3 lbf @ 150 km/h)

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Wind Speed, maximum 250 km/h (155 mph)

Packaging and Weights

 Width, packed
 739 mm | 29.095 in

 Depth, packed
 347 mm | 13.661 in

 Length, packed
 1810 mm | 71.26 in

 Weight, gross
 73 kg | 160.937 lb

## Regulatory Compliance/Certifications

### Agency Classification

CE Compliant with the relevant CE product directives

CHINA-ROHS Above 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/Exempted UK-ROHS Compliant/Exempted



### Included Products

ATCB-B01-C50 – AISG RET Control Cable, 0.5 m

T-041-GL-E – Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.

### \* Footnotes

**Performance Note**Severe environmental conditions may degrade optimum performance

