

6-port sector antenna, 2x 698–960 and 4x 1710–2690 MHz, 65° HPBW, 3x RET with manual override.

- Integrated Internal Remote Electrical Tilt (RET), with independent control of electrical tilt with manual override on all arrays
- 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

This product will be discontinued on: November 30, 2024

Replaced By:

RVV-65A-R3 6-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz, 65° HPBW, 3x RET

### 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 ASA, UV stabilized

Radiator Material Brass | Low loss circuit board

Reflector Material Aluminum

**RF Connector Interface** 4.3-10 Female

**RF Connector Location** Bottom

RF Connector Quantity, high band 4

RF Connector Quantity, low band 2

RF Connector Quantity, total

### Remote Electrical Tilt (RET) Information

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

**RET Interface, quantity** 1 female | 1 male

Input Voltage 10-30 Vdc

Internal RET High band (2) | Low band (1)

Power Consumption, idle state, maximum 2 W

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Power Consumption, normal conditions, maximum 13 W

Protocol 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

**Width** 353 mm | 13.898 in

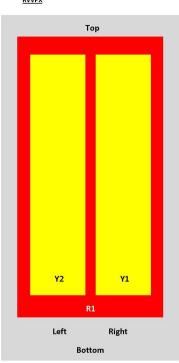
**Depth** 209 mm | 8.228 in

**Length** 1600 mm | 62.992 in

Net Weight, without mounting kit 23 kg | 50.706 lb

## Array Layout

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тау	Freq (MHz)	Conns	RET (SRET)	AISG RET UID		
31	698-960	1-2	1	ARxxxxxxxxxxxxxxxx1		
Y1	1710-2690	3-4	2	ARXXXXXXXXXXXXXXXXXXXXXX		
V2	1710-2690	5.6	3	ARvyvyvyvyvyvyvyv		

View from the front of the antenna

(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°

## **Electrical Specifications**

Frequency Band, MHz	698-790	790-890	890-960	1710-1920	1920-2170	2300-2690
Gain, dBi	14.1	14.8	14.9	17.2	17.6	18.2
Beamwidth, Horizontal, degrees	68.2	68.7	63	62	63.1	61.4
Beamwidth, Vertical, degrees	16.4	14.7	13.4	7.5	6.7	5.4
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
Null Fill, dB				-22	-22	-22
Front-to-Back Ratio at 180°, dB	25	24	25	29	32	30
CPR at Boresight, dB	15.9	12	13.4	20	17	15
CPR at Sector, dB	10	10	7	7	5.4	3
Isolation, Cross Polarization, dB	25	25	25	25	25	25

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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	13.9	14.2	14.8	16.8	17.3	17.7
Gain by all Beam Tilts Tolerance, dB	±0.2	±0.2	±0.1	±0.6	±0.3	±0.6
Gain by Beam Tilt, average, dBi	0° 13.9 5° 13.9 10° 13.9	0° 14.2 5° 14.2 10° 14.1	0° 14.8 5° 14.8 10° 14.7	0° 16.8 5° 16.8 10° 16.8	0° 17.2 5° 17.2 10° 17.3	0° 17.8 5° 17.8 10° 17.5
Beamwidth, Horizontal Tolerance, degrees	±1.6	±1.8	±2	±2.8	±5.1	±6.3
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.9	±0.5	±0.5	±0.5	±0.4
USLS, beampeak to 20° above beampeak, dB	18	18	18	18	18	18
Front-to-Back Total Power at 180° ± 30°, dB	24.5	22.7	23.7	22.9	24.8	25
CPR at Boresight, dB	16	13	13	21	19	18
CPR at Sector, dB	11	10	8	7	5	5

### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 748.0 N @ 150 km/h (168.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 634.0 N @ 150 km/h (142.5 lbf @ 150 km/h)

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

### Packaging and Weights

 Width, packed
 427 mm | 16.811 in

 Depth, packed
 325 mm | 12.795 in

 Length, packed
 1787 mm | 70.354 in

 Weight, gross
 40 kg | 88.185 lb

### Regulatory Compliance/Certifications

Agency Classification

**COMMSCOPE®** 

CE Compliant with the relevant CE product directives

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system



#### Included Products

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

