

8-port sector antenna, 2x790-960 and 6x1710-2690 MHz,  $65^{\circ}$  HPBW, 4x 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

#### **OBSOLETE**

This product was discontinued on: March 31, 2022

Replaced By:

RV3-65D-R4-V3 8-port sector antenna, 2x 694–960 and 6x 1695–2690 MHz, 65° HPBW, 4x IntRET. Antenna rear wind

loading 506N @ 150km/h

### 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 stabilizedRF Connector Interface7-16 DIN Female

**RF Connector Location** Bottom

RF Connector Quantity, high band 6
RF Connector Quantity, low band 2
RF Connector Quantity, total 8

### 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 (3) | Low band (1)

Power Consumption, idle state, maximum 2 W

Page 1 of 5



Power Consumption, normal conditions, maximum 13 W

Protocol 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

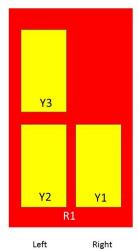
**Width** 354 mm | 13.937 in

**Depth** 210 mm | 8.268 in

**Length** 2533 mm | 99.724 in

Net Weight, without mounting kit 33 kg | 72.752 lb

### Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	790-960	1-2	1	ARxxxxxxxxxxxxxxxxxx1
Y1	1710-2690	3-4	2	ARxxxxxxxxxxxxxxx2
Y2	1710-2690	5-6	3	ARxxxxxxxxxxxxx3
Y3	1710-2690	7-8	4	ARxxxxxxxxxxxxx4

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

Port Configuration

**Bottom** 





### **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1710 – 2690 MHz | 790 – 960 MHz

Polarization ±45°

### **Electrical Specifications**

Frequency Band, MHz	790-890	890-960	1710-1920	1920-2170	2300-2690
Gain, dBi	16.6	17	16.4	17.1	17.7
Beamwidth, Horizontal, degrees	65	64	61	60	63
Beamwidth, Vertical, degrees	8.9	8.1	8.3	7.4	5.9
Beam Tilt, degrees	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	18	19	16	16	15
Front-to-Back Ratio at 180°, dB	25	28	29	30	30
CPR at Boresight, dB	17	14	17	15	13
CPR at Sector, dB	9	9	7	7	7
Isolation, Cross Polarization, dB	25	25	25	25	25
Isolation, Inter-band, dB	30	30	30	30	30

Page 3 of 5



VSWR   Return loss, dB	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
Input Power per Port,	300	300	250	250	250
maximum, watts					

### Electrical Specifications, BASTA

Frequency Band, MHz	790-890	890-960	1710-1920	1920-2170	2300-2690
Gain by all Beam Tilts, average, dBi	16.4	16.8	16.2	16.8	17.3
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.2	±0.3	±0.6	±0.5
Gain by Beam Tilt, average, dBi	0 °   16.4 5 °   16.4 10 °   16.5	0° 16.8 5° 16.8 10° 16.7	0° 16.3 5° 16.2 10° 16.2	0° 16.8 5° 16.8 10° 16.9	0° 17.6 5° 17.4 10° 17.1
Beamwidth, Horizontal Tolerance, degrees	±1.8	±1.5	±2.6	±2.7	±5
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.2	±0.6	±0.6	±0.6
USLS, beampeak to 20° above beampeak, dB	18	18	18	18	17
Front-to-Back Total Power at 180° ± 30°, dB	24	27	23	25	27
CPR at Boresight, dB	18	15	19	18	17
CPR at Sector, dB	8	9	7	4	7

### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 1,237.0 N @ 150 km/h (278.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 478.0 N @ 150 km/h (107.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 1,271.0 N @ 150 km/h (285.7 lbf @ 150 km/h)

 Wind Speed, maximum
 200 km/h (124 mph)

### Packaging and Weights

 Width, packed
 420 mm | 16.535 in

 Depth, packed
 320 mm | 12.598 in

 Length, packed
 2720 mm | 107.087 in

 Weight, gross
 50 kg | 110.231 lb

### Regulatory Compliance/Certifications

Agency Classification

**COMMSCOPE®** 

CE Compliant with the relevant CE product directives

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

ROHS Compliant UK-ROHS Compliant



#### Included Products

T-029-GL-E – Adjustable Tilt Pipe Mounting Kit for 2.362"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.

#### \* Footnotes

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

