

# CCVVPX308.11R-C3



8-port sector antenna, 4x 790–960 and 4x 1695–2690 MHz, 65° HPBW, 4x RET with manual override. Bands cascaded SRET.

- 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
- The RET interface comprises one pair of AISG input/output ports
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Color</b>	Gray
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	4
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	8

## Remote Electrical Tilt (RET) Information, General

<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male

## Dimensions

<b>Width</b>	498 mm   19.606 in
<b>Length</b>	2100 mm   82.677 in
<b>Depth</b>	197 mm   7.756 in

## Array Layout

# CCVVPX308.11R-C3

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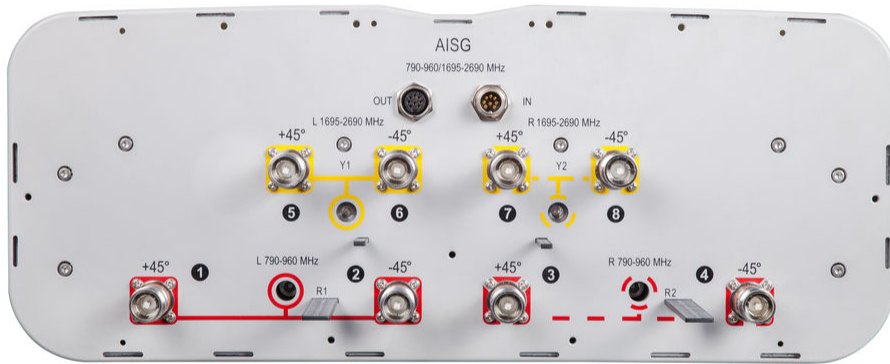
Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	790-960	1-2	1	ARxxxxxxxxxxxxxxxx1
R2	790-960	3-4	2	ARxxxxxxxxxxxxxxxxX2
Y1	1695-2690	5-6	3	ARxxxxxxxxxxxxxxxx3
Y2	1695-2690	7-8	4	ARxxxxxxxxxxxxxxxx4

Left Bottom Right

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

## Port Configuration

# CCVVPX308.11R-C3



## Electrical Specifications

**Operating Frequency Band** 1695 – 2690 MHz | 790 – 960 MHz

## Remote Electrical Tilt (RET) Information, Electrical

**Protocol** 3GPP/AISG 2.0 (Single RET)

**Power Consumption, idle state, maximum** 2 W

**Power Consumption, normal conditions, maximum** 13 W

**Input Voltage** 10–30 Vdc

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

## Electrical Specifications

Frequency Band, MHz	790–862	880–960	1695–1880	1850–1990	1920–2180	2300–2500	2500–2690
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# CCVVPX308.11R-C3

<b>Gain, dBi</b>	14.9	15.6	16.6	16.8	17.4	18.1	18.2
<b>Beamwidth, Horizontal, degrees</b>	74	63	63	66	68	62	63
<b>Beamwidth, Vertical, degrees</b>	11.3	10.2	7.6	7	6.6	5.6	5.2
<b>Beam Tilt, degrees</b>	0–10	0–10	0–10	0–10	0–10	0–10	0–10
<b>USLS (First Lobe), dB</b>	18	18	18	18	18	18	18
<b>Front-to-Back Ratio at 180°, dB</b>	35	35	34	38	40	39	40
<b>Isolation, Cross Polarization, dB</b>	28	28	28	28	28	28	28
<b>Isolation, Inter-band, dB</b>	28	28	28	28	28	28	28
<b>VSWR   Return loss, dB</b>	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150	-150	-150
<b>Input Power per Port, maximum, watts</b>	300	300	250	250	250	250	250

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>790–862</b>	<b>880–960</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2180</b>	<b>2300–2500</b>	<b>2500–2690</b>
<b>Gain by all Beam Tilts, average, dBi</b>	14.7	15.4	16.4	16.5	16.9	17.8	17.9
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.5	±0.3	±0.4	±0.6	±0.7	±0.5	±0.5
<b>Gain by Beam Tilt, average, dBi</b>	0°   14.7 5°   14.7 10°   14.6	0°   15.5 5°   15.5 10°   15.4	0°   16.4 5°   16.4 10°   16.4	0°   16.5 5°   16.5 10°   16.4	0°   16.9 5°   16.9 10°   16.9	0°   17.9 5°   17.9 10°   17.7	0°   17.8 5°   17.9 10°   17.9
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±4.2	±4.7	±3.3	±7.3	±4.4	±3.4	±2.6
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.5	±0.4	±0.5	±0.3	±0.5	±0.2	±0.2
<b>USLS, beampeak to 20° above beampeak, dB</b>	18	18	18	18	18	17	18
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	24	25	27	31	30	31	32
<b>CPR at Boresight, dB</b>	20	18	20	20	18	16	18
<b>CPR at Sector, dB</b>	11	9	9	11	12	11	11

## Material Specifications

<b>Radiator Material</b>	Low loss circuit board
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Reflector Material</b>	Aluminum

## Mechanical Specifications

# CCVVPX308.11R-C3

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<b>Wind Loading at Velocity, frontal</b>	180.5 lbf @ 150 km/h   803.0 N @ 150 km/h
<b>Wind Loading at Velocity, lateral</b>	275.0 N @ 150 km/h   61.8 lbf @ 150 km/h
<b>Wind Loading at Velocity, maximum</b>	1,040.0 N @ 150 km/h   233.8 lbf @ 150 km/h
<b>Wind Speed, maximum</b>	200 km/h   124.274 mph

## Packaging and Weights

<b>Width, packed</b>	565 mm   22.244 in
<b>Depth, packed</b>	312 mm   12.283 in
<b>Length, packed</b>	2286 mm   90 in
<b>Net Weight, without mounting kit</b>	39 kg   85.98 lb
<b>Weight, gross</b>	60 kg   132.277 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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
ROHS	Compliant/Exempted



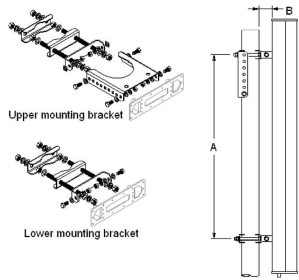
## Included Products

**T-029-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

# T-029-GL-E



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

## General Specifications

<b>Application</b>	Outdoor
<b>Color</b>	Silver

## Dimensions

<b>Compatible Length, maximum</b>	2850 mm   112.205 in
<b>Compatible Length, minimum</b>	1500 mm   59.055 in
<b>Compatible Diameter, maximum</b>	115 mm   4.528 in
<b>Compatible Diameter, minimum</b>	60 mm   2.362 in
<b>Antenna-to-Pipe Distance</b>	85 mm   3.346 in
<b>Bracket-to-Bracket Distance</b>	1400 mm   55.118 in

## Material Specifications

<b>Material Type</b>	Galvanized steel
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## Mechanical Specifications

<b>Mechanical Tilt</b>	0°-8°
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## Packaging and Weights

<b>Included</b>	Brackets   Hardware
<b>Packaging quantity</b>	1

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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

# T-029-GL-E

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REACH-SVHC

Compliant as per SVHC revision on [www.commscope.com/ProductCompliance](http://www.commscope.com/ProductCompliance)

ROHS

Compliant

