

# 2P-2L-C1-V2



2-port sector antenna, 2x 694–960MHz, 65°HPBW, 1x 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

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Single band
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	2

## Remote Electrical Tilt (RET) Information

<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	Low band (1)
<b>Power Consumption, active state, maximum</b>	10 W
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

<b>Width</b>	320 mm   12.598 in
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<b>Depth</b>	140 mm   5.512 in
<b>Length</b>	2500 mm   98.425 in
<b>Net Weight, without mounting kit</b>	21.3 kg   46.958 lb

## Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxxxR1

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

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	694 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	500 W

## Electrical Specifications

Frequency Band, MHz	694–790	790–890	890–960
<b>Gain, dBi</b>	16.5	17.2	17.4
<b>Beamwidth, Horizontal, degrees</b>	69	66	64
<b>Beamwidth, Vertical, degrees</b>	8.9	7.8	7
<b>Beam Tilt, degrees</b>	0–10	0–10	0–10
<b>USLS (First Lobe), dB</b>	21	21	18
<b>Front-to-Back Ratio, Copolarization 180° ± 30°, dB</b>	31	32	32
<b>Isolation, Cross Polarization, dB</b>	28	28	28
<b>VSWR   Return loss, dB</b>	1.5   14.0	1.5   14.0	1.5   14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153
<b>Input Power per Port, maximum, watts</b>	300	300	300

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## Electrical Specifications, BASTA

Frequency Band, MHz	694–790	790–890	890–960
Gain by all Beam Tilts, average, dBi	16.2	17	17.1
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3	±0.4
Beamwidth, Horizontal Tolerance, degrees	±1.6	±2	±1
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.5	±0.4
Front-to-Back Total Power at 180° ± 30°, dB	25	27	26
CPR at Boresight, dB	22	25	27
CPR at Sector, dB	13	13	11

## Mechanical Specifications

Wind Loading @ Velocity, frontal	418.0 N @ 150 km/h (94.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	378.0 N @ 150 km/h (85.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	915.0 N @ 150 km/h (205.7 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

## Packaging and Weights

Width, packed	425 mm   16.732 in
Depth, packed	235 mm   9.252 in
Length, packed	2780 mm   109.449 in
Weight, gross	30.9 kg   68.123 lb

## Regulatory Compliance/Certifications

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

## \* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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