

# 4P-4L-C2-V8



4-port sector antenna, 4x 698–960 MHz, 65° HPBW, 2x RET

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Single band
<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>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	4

## 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 (2)
<b>Power Consumption, active state, maximum</b>	13 W
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

<b>Width</b>	448 mm   17.638 in
<b>Depth</b>	145 mm   5.709 in
<b>Length</b>	2450 mm   96.457 in

# 4P-4L-C2-V8

Net Weight, without mounting kit

25.5 kg | 56.218 lb

## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRE7)	AISG No.	RET UID
R1	698-960	1 - 2	1	AISG1	ANxxxxxxxxxxxxxxxxR1
R2	698-960	3 - 4	2	AISG1	ANxxxxxxxxxxxxxxxxR2

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

## Port Configuration



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	698 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	800 W

## Electrical Specifications

# 4P-4L-C2-V8

	<b>R1,R2</b>	<b>R1,R2</b>	<b>R1,R2</b>
<b>Frequency Band, MHz</b>	<b>698–803</b>	<b>824–894</b>	<b>880–960</b>
<b>RF Port</b>	1-4	1-4	1-4
<b>Beamwidth, Horizontal, degrees</b>	67	60	56
<b>Beamwidth, Vertical, degrees</b>	8.6	7.8	7.3
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	16	18	18
<b>Front-to-Back Ratio, Copolarization 180° ± 30°, dB</b>	26	27	27
<b>Isolation, Cross Polarization, dB</b>	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	25
<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>	-150	-150	-150
<b>Input Power per Port, maximum, watts</b>	250	250	250

## Electrical Specifications, BASTA

	<b>698–803</b>	<b>824–894</b>	<b>880–960</b>
<b>Frequency Band, MHz</b>			
<b>Gain by all Beam Tilts, average, dBi</b>	15.4	16.1	16.5
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.6	±0.6	±0.7
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±7	±6	±6
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.8	±0.7	±0.7

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	960.0 N @ 150 km/h (215.8 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	279.0 N @ 150 km/h (62.7 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	988.0 N @ 150 km/h (222.1 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	200 km/h (124 mph)

## Packaging and Weights

<b>Width, packed</b>	550 mm   21.654 in
<b>Depth, packed</b>	245 mm   9.646 in
<b>Length, packed</b>	2670 mm   105.118 in
<b>Weight, gross</b>	34.5 kg   76.059 lb

## Regulatory Compliance/Certifications

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

# 4P-4L-C2-V8

---

UK-ROHS

Compliant

## \* Footnotes

### **Performance Note**

Severe environmental conditions may degrade optimum performance