

4P-4L-C2-V5



4-port sector antenna, 4x 694–960 MHz, 65° HPBW, 2x RET

- Symmetrical 2L Arrays: Ensuring pattern consistency across ports and enabling 4T4R (4x MIMO) on the low band
- Optimized Radome Design: Leading to market-leading wind load performance
- Integrated Features: Antenna equipped with tilt scale indicators and an integrated pluggable RET

General Specifications

Antenna Type	Sector
Band	Single band
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, low band	4
RF Connector Quantity, total	4

Remote Electrical Tilt (RET) Information

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

Dimensions

Width	427 mm 16.811 in
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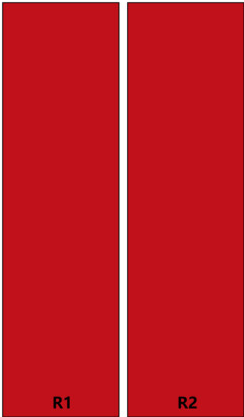
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Depth 157 mm | 6.181 in
Length 2497 mm | 98.307 in
Net Weight, antenna only 22.4 kg | 49.383 lb

Array Layout

Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	RET UID
R1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxR1
R2	694-960	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxR2

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



Port Configuration



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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	800 W

Electrical Specifications

	R1,R2	R1,R2	R1,R2
Frequency Band, MHz	694–803	790–894	880–960
RF Port	1-4	1-4	1-4
Gain, dBi	15.9	16.4	16.6
Beamwidth, Horizontal, degrees	68	60	56
Beamwidth, Vertical, degrees	8.6	7.7	7.3
Beam Tilt, degrees	0–10	0–10	0–10
USLS (First Lobe), dB	15	15	15
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	24	25	25
Isolation, Cross Polarization, dB	25	25	25
Isolation, Inter-band, dB	25	25	25
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
Input Power per Port, maximum, watts	250	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	694–803	790–894	880–960
Gain by all Beam Tilts, average, dBi	15.5	16.2	16.4
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.6	±0.6
Beamwidth, Horizontal Tolerance, degrees	±5	±5	±5
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.6	±0.4
CPR at Boresight, dB	17	17	17

Mechanical Specifications

Wind Loading @ Velocity, frontal	965.0 N @ 150 km/h (216.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	402.0 N @ 150 km/h (90.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	1,174.0 N @ 150 km/h (263.9 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

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Packaging and Weights

Width, packed	502 mm 19.764 in
Depth, packed	232 mm 9.134 in
Length, packed	2737 mm 107.756 in
Weight, gross	33.7 kg 74.296 lb

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance