

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 TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

Performance Note Outdoor usage

Radome MaterialFiberglass, UV resistantRadiator MaterialLow 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 Voltage10-30 VdcInternal RETLow band (2)

Power Consumption, active state, maximum $10~\mathrm{W}$ Power Consumption, idle state, maximum $2~\mathrm{W}$

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 427 mm | 16.811 in

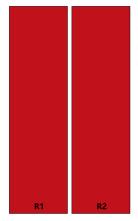
Page 1 of 4

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	CPxxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxR2

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 694 – 960 MHz

Polarization $\pm 45^{\circ}$ Total Input Power, maximum $800~\mathrm{W}$

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° \pm 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

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)

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



Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

