

8-port sector antenna, 4x 698-960 and 4x 1710-2690 MHz, 65° HPBW, 4x RET

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Antenna with integrated pluggable RET
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

Performance Note Outdoor usage

Radome Material Fiberglass, UV resistant

Radiator MaterialAluminumReflector MaterialAluminumRF Connector Interface4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, mid band 4
RF Connector Quantity, low band 4
RF Connector Quantity, total 8

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) | Mid band (2)

Power Consumption, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0 (Single RET)



Dimensions

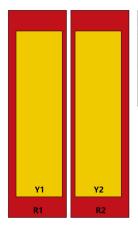
 Width
 469 mm | 18.465 in

 Depth
 198 mm | 7.795 in

 Length
 2000 mm | 78.74 in

 Net Weight, antenna only
 31.5 kg | 69.446 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	698-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxR1
R2	698-960	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxR2
Y1	1710-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxY1
Y2	1710-2690	7 - 8	65°	4	AISG1	CPxxxxxxxxxxxxxY2

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1710 – 2690 MHz | 698 – 960 MHz

Polarization $\pm 45^{\circ}$ Total Input Power, maximum 900 W

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	698-806	790-894	890-960	1710-1995	1920-2300	2300-2500	2490-2690
RF Port	1-4	1-4	1-4	5-8	5-8	5-8	5-8
Gain, dBi	14.8	15.2	15.4	17.4	17.4	17	17.3
Beamwidth, Horizontal, degrees	66	63	62	63	63	66	63
Beamwidth, Vertical, degrees	12.4	11.5	10.7	6.3	5.8	5.2	4.9
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	19	20	18	17	21	20	20
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	28	28	29	29	29	29	26

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Isolation, Cross Polarization, dB	26	26	26	28	28	28	28
Isolation, Inter-band, dB	27	27	27	27	27	27	27
VSWR Return loss, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	250	250	250	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	790-894	890-960	1710-1995	1920-2300	2300-2500	2490-2690
Gain by all Beam Tilts, average, dBi	14.5	15.1	15.2	17	17	16.7	16.7
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3	±0.2	±0.4	±0.4	±0.3	±0.7
Beamwidth, Horizontal Tolerance, degrees	±4	±3	±4	±4	±6	±6	±8
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.5	±0.6	±0.3	±0.5	±0.3	±0.2
CPR at Boresight, dB	20	21	20	23	23	21	20

Mechanical Specifications

Wind Loading @ Velocity, frontal	536.0 N @ 150 km/h (120.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	287.0 N @ 150 km/h (64.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	569.0 N @ 150 km/h (127.9 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

Packaging and Weights

Width, packed	540 mm 21.26 in
Depth, packed	275 mm 10.827 in
Length, packed	2207 mm 86.89 in
Weight, gross	42.5 kg 93.696 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
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

