

12-port sector antenna, 4x 694–960 and 8x 1695–2690 MHz, 65° HPBW, 6x 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

Antenna Type Sector

Band Multiband

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 MaterialAluminumReflector MaterialAluminum

**RF Connector Interface** 4.3-10 Female

**RF Connector Location** Bottom

RF Connector Quantity, mid band 8
RF Connector Quantity, low band 4
RF Connector Quantity, total 12

#### 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 (4)

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

**Protocol** 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

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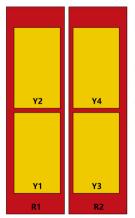
**Width** 469 mm | 18.465 in

**Depth** 198 mm | 7.795 in

**Length** 2580 mm | 101.575 in

Net Weight, antenna only 43.7 kg | 96.342 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	CPxxxxxxxxxxxxxXR1	
R2	694-960	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxR2	
Y1	1695-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxY1	
Y2	1695-2690	7 - 8	65°	4	AISG1	CPxxxxxxxxxxxxxY2	
Y3	1695-2690	9 - 10	65°	5	AISG1	CPxxxxxxxxxxxxxY3	
Y4	1695-2690	11 - 12	65°	6	AISG1	CPxxxxxxxxxxxx4	

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

### Port Configuration



#### **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

**Total Input Power, maximum** 1,000 W

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### **Electrical Specifications**

	R1,R2	R1,R2	R1,R2	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
Frequency Band, MHz	698-806	790-894	890-960	1695-1995	1920-2300	2300-2500	2490-2690
RF Port	1-4	1-4	1-4	5-12	5-12	5-12	5-12
Gain, dBi	16.2	16.8	17	16.6	16.8	16.8	17
Beamwidth, Horizontal, degrees	65	64	63	67	65	63	58
Beamwidth, Vertical, degrees	8.6	7.7	7.2	7	6.3	5.6	5.3
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	20	20	15	18	22	21
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	27	27	30	29	29	27	26
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25
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	1695-1995	1920-2300	2300-2500	2490-2690
Gain by all Beam Tilts, average, dBi	15.8	16.6	16.8	16	16.3	16.2	16.5
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.3	±0.8	±0.7	±0.8	±0.7
Beamwidth, Horizontal Tolerance, degrees	±4	±3	±4	±5	±7	±8	±6
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.4	±0.3	±0.5	±0.5	±0.2	±0.3
CPR at Boresight, dB	26	30	27	24	21	19	19

### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 709.0 N @ 150 km/h (159.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 383.0 N @ 150 km/h (86.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 753.0 N @ 150 km/h (169.3 lbf @ 150 km/h)

 Wind Speed, maximum
 200 km/h (124 mph)

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#### Packaging and Weights

 Width, packed
 540 mm | 21.26 in

 Depth, packed
 275 mm | 10.827 in

 Length, packed
 2850 mm | 112.205 in

 Weight, gross
 58.2 kg | 128.309 lb

#### Regulatory Compliance/Certifications

# Agency Classification CHINA-ROHS Below maximum of

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

