

10-port sector antenna, 2x 694–960 and 8x 1695–2690 MHz, 65° HPBW, 5x RET with manual override. Bands cascaded SRET.

- Integrated Internal Remote Electrical Tilt (RET), with independent control of electrical tilt with manual override on all arrays
- All Internal RET actuators are connected in "Cascaded SRET" configuration

This product will be discontinued on: November 30, 2024

#### General Specifications

Band

Antenna Type Sector

**Grounding Type**RF connector inner conductor and body grounded to reflector and

Multiband

mounting bracket

Performance Note Outdoor usage | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

 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, high band 8
RF Connector Quantity, low band 2
RF Connector Quantity, total 10

### Remote Electrical Tilt (RET) Information

RET Interface 8-pin DIN Female | 8-pin DIN Male

**RET Interface, quantity** 1 female | 1 male

Input Voltage 10–30 Vdc

Internal RET High band (4) | Low band (1)

Power Consumption, idle state, maximum 2 W
Power Consumption, normal conditions, maximum 13 W

Protocol 3GPP/AISG 2.0 (Single RET)

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#### **Dimensions**

 Width
 350 mm | 13.78 in

 Depth
 208 mm | 8.189 in

 Length
 2533 mm | 99.724 in

Net Weight, without mounting kit 39 kg | 85.98 lb

### Array Layout



Bottom

Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	ARxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Y1	1695-2690	3-4	2	ARxxxxxxxxxxxxxx2
Y2	1695-2690	5-6	3	ARxxxxxxxxxxxxx3
Y3	1695-2690	7-8	4	ARxxxxxxxxxxxxx4
Y4	1695-2690	9-10	5	ARxxxxxxxxxxxxxxx

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

### **Electrical Specifications**

**Impedance** 50 ohm

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

Polarization ±45°

**Total Input Power, maximum** 1,000 W @ 50 °C

### **Electrical Specifications**

Frequency Band, MHz	694-798	790-894	890-960	1695-1880	1850-1990	1920-2200	2300-2690
Gain, dBi	16	16.6	16.9	16.8	16.9	17.2	18
Beamwidth, Horizontal, degrees	69	68	66	63	62	63	61
Beamwidth, Vertical, degrees	9.9	8.7	8.1	8.3	7.7	7.1	6
Beam Tilt, degrees	0-10	0-10	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	18	18	18	18	18	18	18

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Null Fill, dB	-22	-22	-22	-22	-22	-22	-22
Front-to-Back Ratio at 180°, dB	31	34	33	32	39	37	38
Isolation, Cross Polarization, dB	28	28	28	30	30	30	30
Isolation, Inter-band, dB	30	30	30	30	30	30	30
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 at 50°C, maximum, watts	200	200	200	175	175	175	175

## Electrical Specifications, BASTA

Frequency Band, MHz	694-798	790-894	890-960	1695-1880	1850-1990	1920-2200	2300-2690
Gain by all Beam Tilts, average, dBi	15.8	16.4	16.8	16.3	16.6	16.9	17.6
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.2	±0.5	±0.4	±0.4	±0.5
Gain by Beam Tilt, average, dBi	0° 15.9 5° 15.8 10° 15.8	0° 16.4 5° 16.4 10° 16.4	0° 16.7 5° 16.7 10° 16.8	0° 16.3 5° 16.3 10° 16.4	0° 16.6 5° 16.6 10° 16.7	0° 16.9 5° 17.0 10° 16.9	0° 17.6 5° 17.6 10° 17.4
Beamwidth, Horizontal Tolerance, degrees	±1.3	±0.7	±1.4	±2.3	±1.8	±2.7	±5.2
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.5	±0.3	±0.5	±0.3	±0.5	±0.4
USLS, beampeak to 20° above beampeak, dB	18	18	18	18	18	18	18
Front-to-Back Total Power at 180° ± 30°, dB	26	27	27	26	29	27	29
CPR at Boresight, dB	16	18	17	17	21	19	18
CPR at Sector, dB	12	13	16	13	12	12	10

### Mechanical Specifications

Effective Projective Area (EPA), frontal	0.42 m <sup>2</sup>   4.521 ft <sup>2</sup>
Effective Projective Area (EPA), lateral	0.36 m <sup>2</sup>   3.875 ft <sup>2</sup>
Wind Loading @ Velocity, frontal	445.0 N @ 150 km/h (100.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	379.0 N @ 150 km/h (85.2 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	942.0 N @ 150 km/h (211.8 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	472.0 N @ 150 km/h (106.1 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

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### Packaging and Weights

 Width, packed
 456 mm | 17.953 in

 Depth, packed
 357 mm | 14.055 in

 Length, packed
 2834 mm | 111.575 in

 Weight, gross
 56 kg | 123.459 lb

### Regulatory Compliance/Certifications

#### Agency Classification

CE Compliant with the relevant CE product directives

CHINA-ROHS Above 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/Exempted UK-ROHS Compliant/Exempted



#### Included Products

T-029-GL-E – Adjustable Tilt Pipe Mounting Kit for 2.362"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.

#### \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance

