

6-port sector antenna, 2x 694–960 and 4x 1695–2690 MHz, 65° HPBW, 3x RET with manual override.

- 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
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

#### OBSOLETE

This product was discontinued on: November 30, 2023

### 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   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	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

#### 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 (2)   Low band (1)

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Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Single RET)
Dimensions	
Width	350 mm   13.78 in
Depth	208 mm   8.189 in
Length	2533 mm   99.724 in
Net Weight, without mounting kit	32 kg   70.548 lb

### Array Layout

_	Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
	R1	694-960	1-2	1	ARxxxxxxxxxxxxxxx1
	Y1	1695-2690	3-4	2	ARxxxxxxxxxxxxxxx2
	Y2	1695-2690	5-6	3	ARxxxxxxxxxxxxxxxXX



**R1** 

Y2

Y1

(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	1695 – 2690 MHz   694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,000 W @ 50 °C

# **Electrical Specifications**

Frequency Band, MHz	694-790	790-890	890-960	1695-1880	1850-1990	1920-2180	2300-2690
Gain, dBi	16.3	16.7	17	17.4	17.8	18	18.5
Beamwidth, Horizontal, degrees	69	67	64	62	60	62	61
Beamwidth, Vertical, degrees	10	8.9	8.2	7.6	7.1	6.6	5.5
Beam Tilt, degrees	0-10	0-10	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	20	20	21	21	20	20	20
Null Fill, dB	-17	-19	-20	-27	-26	-26	-21
Front-to-Back Ratio at 180°, dB	30	31	31	34	39	38	39
Isolation, Cross Polarization, dB	28	28	28	30	30	30	30
Isolation, Inter-band, dB	30	30	30	30	30	30	30

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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	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	200	200	200	175	175	175	175

### Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	890-960	1695-1880	1850-1990	1920-2180	2300-2690
Gain by all Beam Tilts, average, dBi	16	16.6	16.9	17	17.5	17.8	18.2
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.2	±0.1	±0.4	±0.4	±0.3	±0.5
Gain by Beam Tilt, average, dBi	0 °   16.0 5 °   16.0 10 °   16.0	0 °   16.6 5 °   16.6 10 °   16.6	0 °   16.9 5 °   16.9 10 °   16.9	0 °   17.0 5 °   17.0 10 °   17.1	0 °   17.5 5 °   17.5 10 °   17.6	0 °   17.8 5 °   17.8 10 °   17.8	0 °   18.3 5 °   18.3 10 °   18.1
Beamwidth, Horizontal Tolerance, degrees	±0.9	±1.1	±1.9	±3	±1.5	±2.7	±6.3
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.4	±0.3	±0.4	±0.3	±0.5	±0.4
USLS, beampeak to 20° above beampeak, dB	20	20	21	20	20	19	19
Front-to-Back Total Power at 180° ± 30°, dB	26	26	26	27	28	26	29
CPR at Boresight, dB	15	17	17	18	21	20	19
CPR at Sector, dB	12	12	14	12	12	12	9

### Mechanical Specifications

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)

# Packaging and Weights

Width, packed	436 mm   17.165 in
Depth, packed	320 mm   12.598 in
Length, packed	2720 mm   107.087 in
Weight, gross	54 kg   119.049 lb

# Regulatory Compliance/Certifications

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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
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted
	2015

#### 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

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