

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

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 | 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 LocationBottom

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)

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 2065 mm | 81.299 in

Net Weight, without mounting kit 28.5 kg | 62.832 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	ARxxxxxxxxxxxxxxxx1
Y1	1695-2690	3-4	2	ARxxxxxxxxxxxxxxxx2
Y2	1695-2690	5-6	3	ARxxxxxxxxxxxxx3

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

Port Configuration

Bottom



Electrical Specifications

Impedance 50 ohm

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

Polarization ±45°

Total Input Power, maximum 800 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	694-790	790-890	890-960	1695-1880	1850-1990	1920-2180	2300-2690
Gain, dBi	15.6	16	16.2	17.3	17.7	18	18.7
Beamwidth, Horizontal, degrees	69	67	65	62	61	63	61
Beamwidth, Vertical, degrees	12.5	11	10.1	7.6	7	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	18	18	18	18	18	18	18
Null Fill, dB	-22	-22	-22	-22	-22	-22	-22
Front-to-Back Ratio at 180°, dB	30	33	34	33	38	36	37
Isolation, Cross Polarization, dB	28	28	28	30	30	30	30
Isolation, Inter-band, dB	30	30	30	30	30	30	30

Page 3 of 7



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	175	175	175	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	15.3	15.9	16.1	17	17.5	17.8	18.3
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.2	±0.1	±0.4	±0.4	±0.3	±0.4
Gain by Beam Tilt, average, dBi	0° 15.3 5° 15.3 10° 15.2	0° 15.8 5° 15.9 10° 15.8	0° 16.1 5° 16.1 10° 16.1	0° 16.9 5° 17.0 10° 17.1	0° 17.4 5° 17.5 10° 17.5	0° 17.7 5° 17.8 10° 17.8	0° 18.3 5° 18.4 10° 18.3
Beamwidth, Horizontal Tolerance, degrees	±0.9	±0.9	±1.6	±2.3	±1.5	±2.5	±5.5
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.6	±0.4	±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	26	27	26	26	26	30
CPR at Boresight, dB	17	17	16	17	19	19	19
CPR at Sector, dB	13	13	14	13	13	12	10

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 348.0 N @ 150 km/h (78.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 294.0 N @ 150 km/h (66.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 737.0 N @ 150 km/h (165.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 369.0 N @ 150 km/h (83.0 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
 2252 mm | 88.661 in

 Weight, gross
 49 kg | 108.026 lb

Regulatory Compliance/Certifications

COMMSCOPE®

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



T-029-GL-F



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

Product Classification

Product Type Adjustable tilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Compatible Length, maximum

Compatible Length, minimum

Compatible Diameter, maximum

Compatible Diameter, minimum

Compatible Diameter, minimum

Antenna-to-Pipe Distance

Bracket-to-Bracket Distance

Weight, net

2850 mm | 112.205 in

1500 mm | 59.055 in

115 mm | 4.528 in

60 mm | 2.362 in

85 mm | 3.346 in

1400 mm | 55.118 in

6 kg | 13.228 lb

Material Specifications

Material Type Galvanized steel

Mechanical Specifications

Mechanical Tilt 0°-8°

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

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