



8-port sector antenna, 4x 790–960 and 4x 1695–2690 MHz, 65° HPBW, 4x 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
- The RET interface comprises one pair of AISG input/output ports
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

## Electrical Specifications

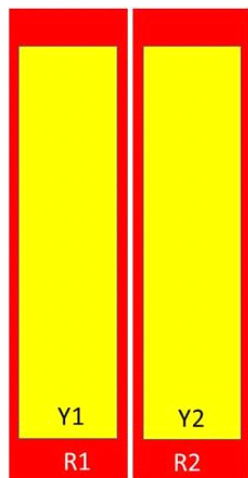
Frequency Band, MHz	790–862	880–960	1695–1880	1850–1990	1920–2180	2300–2500	2500–2690
Gain, dBi	14.9	15.6	16.6	16.8	17.4	18.1	18.2
Beamwidth, Horizontal, degrees	74	63	63	66	68	62	63
Beamwidth, Vertical, degrees	11.3	10.2	7.6	7.0	6.6	5.6	5.2
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	18	18	18	18	18	18	18
Front-to-Back Ratio at 180°, dB	35	35	34	38	40	39	40
Isolation, Cross Polarization, dB	28	28	28	28	28	28	28
Isolation, Inter-band, dB	28	28	28	28	28	28	28
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	300	300	250	250	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

## Electrical Specifications, BASTA\*

Frequency Band, MHz	790–862	880–960	1695–1880	1850–1990	1920–2180	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	14.7	15.4	16.4	16.5	16.9	17.8	17.9
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3	±0.4	±0.6	±0.7	±0.5	±0.5
Gain by Beam Tilt, average, dBi	0 °   14.7 5 °   14.7 10 °   14.6	0 °   15.5 5 °   15.5 10 °   15.4	0 °   16.4 5 °   16.4 10 °   16.4	0 °   16.5 5 °   16.5 10 °   16.4	0 °   16.9 5 °   16.9 10 °   16.9	0 °   17.9 5 °   17.9 10 °   17.7	0 °   17.8 5 °   17.9 10 °   17.9
Beamwidth, Horizontal Tolerance, degrees	±4.2	±4.7	±3.3	±7.3	±4.4	±3.4	±2.6
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.5	±0.3	±0.5	±0.2	±0.2
USLS, beampeak to 20° above beampeak, dB	18	18	18	18	18	17	18
Front-to-Back Total Power at 180° ± 30°, dB	24	25	27	31	30	31	32
CPR at Boresight, dB	20	18	20	20	18	16	18
CPR at Sector, dB	11	9	9	11	12	11	11

\* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs](#).

## Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	790-960	1-2	1	ARxxxxxxxxxxxxxxxxxx1
R2	790-960	3-4	2	ARxxxxxxxxxxxxxxxxxxX2
Y1	1695-2690	5-6	3	ARxxxxxxxxxxxxxxxxxx3
Y2	1695-2690	7-8	4	ARxxxxxxxxxxxxxxxxxx4

Left Bottom Right

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

## General Specifications

<b>Operating Frequency Band</b>	1695 – 2690 MHz   790 – 960 MHz
<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Performance Note</b>	Outdoor usage

## Mechanical Specifications

<b>RF Connector Quantity, total</b>	8
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, high band</b>	4
<b>RF Connector Interface</b>	4.3-10 Female
<b>Color</b>	Gray
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Radiator Material</b>	Low loss circuit board
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Reflector Material</b>	Aluminum
<b>RF Connector Location</b>	Bottom
<b>Wind Loading, frontal</b>	803.0 N @ 150 km/h 180.5 lbf @ 150 km/h
<b>Wind Loading, lateral</b>	275.0 N @ 150 km/h 61.8 lbf @ 150 km/h
<b>Wind Loading, maximum</b>	1040.0 N @ 150 km/h

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<b>Wind Speed, maximum</b>	233.8 lbf @ 150 km/h 200 km/h   124 mph
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## Dimensions

<b>Length</b>	2100.0 mm   82.7 in
<b>Width</b>	498.0 mm   19.6 in
<b>Depth</b>	197.0 mm   7.8 in
<b>Net Weight, without mounting kit</b>	39.0 kg   86.0 lb

## Remote Electrical Tilt (RET) Information

<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	High band (2)   Low band (2)
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Power Consumption, normal conditions, maximum</b>	13 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male

## Packed Dimensions

<b>Length</b>	2286.0 mm   90.0 in
<b>Width</b>	565.0 mm   22.2 in
<b>Depth</b>	312.0 mm   12.3 in
<b>Shipping Weight</b>	60.0 kg   132.3 lb

## Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)
CE	Compliant with the relevant CE product directives



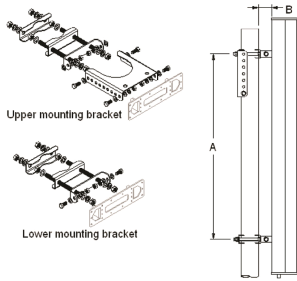
## Included Products

T-029-GL-E — Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.

## \* Footnotes

**Performance Note**

Severe environmental conditions may degrade optimum performance



Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.

## General Specifications

<b>Application</b>	Outdoor
<b>Includes</b>	Brackets   Hardware
<b>Package Quantity</b>	1

## Mechanical Specifications

<b>Color</b>	Silver
<b>Material Type</b>	Galvanized steel
<b>Mechanical Tilt</b>	0°-8°

## Dimensions

<b>Antenna-to-Pipe Distance</b>	85.0 mm   3.3 in
<b>Bracket-to-Bracket Distance</b>	1400.0 mm   55.1 in
<b>Compatible Diameter, maximum</b>	115.0 mm   4.5 in
<b>Compatible Diameter, minimum</b>	60.0 mm   2.4 in
<b>Compatible Length, maximum</b>	2850.0 mm   112.2 in
<b>Compatible Length, minimum</b>	1500.0 mm   59.1 in
<b>Net Weight</b>	6.0 kg   13.2 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
RoHS 2011/65/EU	Compliant by Exemption
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