

12-port sector antenna, 4x 790–960 and 8x 1695–2690 MHz, 65° HPBW, 6x 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

OBSOLETE

This product was discontinued on: March 27, 2020

Replaced By:

12P-4L8M-D6 12-port sector antenna, 4x 694-960 and 8x 1695-2690 MHz, 65° HPBW, 6x RET. Antenna rear wind

loading 880N @ 150km/h

RRV4-65D-R6 12-port sector antenna, 4x 694–960 and 8x 1695–2690 MHz, 65° HPBW, 6x RET. Antenna rear wind

loading 880N @ 150km/h

General Specifications

Antenna Type Sector

Band Multiband

Color Gray

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 MaterialFiberglass, UV resistantRadiator MaterialLow 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 4
RF Connector Quantity, total 12

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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 (2)

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

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

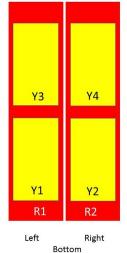
 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

 Length
 2720 mm | 107.087 in

Net Weight, without mounting kit 54 kg | 119.049 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	790-960	1-2	1	ARxxxxxxxxxxxxxxxxxx1
R2	790-960	3-4	2	ARxxxxxxxxxxxxxxx2
Y1	1695-2690	5-6	3	ARxxxxxxxxxxxxx3
Y2	1695-2690	7-8	4	ARxxxxxxxxxxxxx4
Y3	1695-2690	9-10	5	ARxxxxxxxxxxxxxxx
Y4	1695-2690	11-12	6	ARxxxxxxxxxxxxxx6

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

Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 790 – 960 MHz

Polarization ±45°

Electrical Specifications

Frequency Band, MHz	790-862	880-960	1695-1880	1850-1990	1920-2180	2300-2500	2500-2690
Gain, dBi	15.8	16.4	16.7	16.8	17.4	18.1	18.1
Beamwidth, Horizontal, degrees	73	62	63	66.3	67	62	64.1
Beamwidth, Vertical, degrees	8.9	8.1	7.6	7	6.6	5.5	5.2
Beam Tilt, degrees	0-10	0-10	0-10	0-10	0-10	0-10	0-10

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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	35	34	33	38	39	39	41
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

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	15.5	16.2	16.4	16.4	16.9	17.8	17.8
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3	±0.4	±0.5	±0.8	±0.4	±0.4
Gain by Beam Tilt, average, dBi	0° 15.5 5° 15.5 10° 15.6	0° 16.2 5° 16.2 10° 16.1	0° 16.3 5° 16.4 10° 16.4	0° 16.4 5° 16.4 10° 16.4	0° 16.9 5° 16.9 10° 16.9	0° 17.9 5° 17.9 10° 17.6	0° 17.7 5° 17.8 10° 17.7
Beamwidth, Horizontal Tolerance, degrees	±5.7	±4.7	±3.4	±7.3	±4.6	±3.7	±3.7
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.3	±0.5	±0.3	±0.5	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	18	18	17	18	18	18	18
Front-to-Back Total Power at 180° ± 30°, dB	23	24	26	30	30	32	32
CPR at Boresight, dB	19	18	20	20	19	17	18
CPR at Sector, dB	11	9	9	10	11	11	12

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 1,085.0 N @ 150 km/h (243.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 380.0 N @ 150 km/h (85.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,404.0 N @ 150 km/h (315.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 893.0 N @ 150 km/h (200.8 lbf @ 150 km/h)

 Wind Speed, maximum
 200 km/h | 124.274 mph

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Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 312 mm | 12.283 in

 Length, packed
 2906 mm | 114.41 in

 Weight, gross
 78.8 kg | 173.724 lb

Regulatory Compliance/Certifications

Agency C	lassification
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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



Included Products

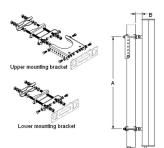
T-029-GL-E – Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance



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.

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Compatible Length, maximum2850 mm | 112.205 inCompatible Length, minimum1500 mm | 59.055 inCompatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inAntenna-to-Pipe Distance85 mm | 3.346 inBracket-to-Bracket Distance1400 mm | 55.118 in

Material Specifications

Material Type Galvanized steel

Mechanical Specifications

Mechanical Tilt 0°-8°

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

Weight, net 6 kg | 13.228 lb

Regulatory Compliance/Certifications

Agency Classification

CE Compliant with the relevant CE product directives

COMMSC PE°

T-029-GL-E

Below maximum concentration value CHINA-ROHS

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





