

CCVVPX308.11R2



8-port sector antenna, 4x 790–960 and 4x 1695–2690 MHz, 65° HPBW, 4x RET with manual override. Bands cascaded SRET designed for Site-Sharing purpose (two Operators / Primaries operating their assigned RET's independently)

- The RET interface comprises two pairs of AISG input/output ports, each pair controlling “one side” of the antenna independently: one pair for the left-hand bands 1 and 3 (R1, Y1); one pair for the right-hand bands 2 and 4 (R2, Y2)
- Integrated Internal Remote Electrical Tilt (RET), with independent control of electrical tilt with manual override on all arrays
- All Internal RET actuators on each antenna side are connected in “Cascaded SRET” configuration

OBSOLETE

This product was discontinued on: **March 27, 2020**

Replaced By:

RRZ4TT-65D-R8	16-port sector antenna, 4x 694–960, 8x 1427-2690 and 4x 1427–2690 MHz, 65° HPBW, 4x RET
RRZZ-65B-R4	8-port sector antenna, 4x 694–960 and 4x 1427–2690 MHz, 65° HPBW, 4x RET
RRZZTT-65A-R6	12-port sector antenna, 4x 694–960, 4x 1427-2180 and 4x 2490–2690 MHz, 65° HPBW, 6x RET
RRZZTT-65B-R6	12-port sector antenna, 4x 694–960, 4x 1427-2180 and 4x 2490–2690 MHz, 65° HPBW, 6x RET

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	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4

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RF Connector Quantity, low band	4
RF Connector Quantity, total	8

Remote Electrical Tilt (RET) Information

RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10–30 Vdc
Internal RET	High band (2) 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	2100 mm 82.677 in
Net Weight, without mounting kit	39 kg 85.98 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	790-960	1-2	1	ARxxxxxxxxxxxxxxxxx1
R2	790-960	3-4	2	ARxxxxxxxxxxxxxxxxxX2
Y1	1695-2690	5-6	3	ARxxxxxxxxxxxxxxxxx3
Y2	1695-2690	7-8	4	ARxxxxxxxxxxxxxxxxx4

Left Bottom Right

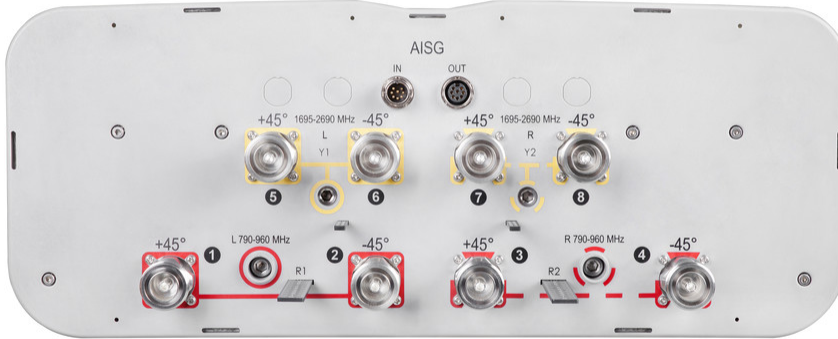
(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration

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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 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	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	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

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Input Power per Port, maximum, watts	300	300	250	250	250	250	250
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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

Mechanical Specifications

Wind Loading @ Velocity, frontal	803.0 N @ 150 km/h (180.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	275.0 N @ 150 km/h (61.8 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,040.0 N @ 150 km/h (233.8 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	661.0 N @ 150 km/h (148.6 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

Packaging and Weights

Width, packed	565 mm 22.244 in
Depth, packed	312 mm 12.283 in
Length, packed	2286 mm 90 in
Weight, gross	60 kg 132.277 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives

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ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system



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