

R2V4PX308R



12-port sector antenna, 4x 698–960 and 8x 1710–2690 MHz, 65° HPBW, 6x RET with manual override. Bands cascaded SRET (Antenna 1 and Antenna 2).

OBSOLETE

This product was discontinued on: **March 30, 2022**

Replaced By:

RRV4-65B-R6H4-V2 12-port sector antenna, 4x 694–960 and 8x 1695-2690 MHz, 65° HPBW, 6x RET

General Specifications

Antenna Type	Sector
Band	Multiband
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	ASA, UV stabilized
Radiator Material	Brass Low 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

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

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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	641 mm 25.236 in
Depth	244 mm 9.606 in
Length	2074 mm 81.654 in
Net Weight, without mounting kit	60 kg 132.277 lb

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1710 – 2690 MHz 698 – 960 MHz
Polarization	±45°

Electrical Specifications

Frequency Band, MHz	698–790	790–890	890–960	1710–1920	1920–2170	2300–2690
Gain, dBi	15.1	15.5	15.9	16.4	17.2	17.9
Beamwidth, Horizontal, degrees	65	62	59	62	58	59
Beamwidth, Vertical, degrees	12.3	11	9.9	10.4	9.2	7.4
Beam Tilt, degrees	0–10	0–10	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	18	18	18	18	18	18
Front-to-Back Ratio at 180°, dB	33	33	32	32	33	37
CPR at Boresight, dB	23	19	18	23	21	14
CPR at Sector, dB	13	14	12	13	11	2
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	30	30	30	30
VSWR Return loss, dB	1.43 15.0	1.43 15.0	1.43 15.0	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
Input Power per Port, maximum, watts	300	300	300	250	250	250

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Electrical Specifications, BASTA

Frequency Band, MHz	698–790	790–890	890–960	1710–1920	1920–2170	2300–2690
Gain by all Beam Tilts, average, dBi	14.8	15.3	15.7	15.9	16.8	17.5
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.3	±0.3	±0.6	±0.5	±0.6
Gain by Beam Tilt, average, dBi	0° 14.8 5° 14.8 10° 14.7	0° 15.3 5° 15.3 10° 15.3	0° 15.7 5° 15.7 10° 15.6	0° 16.0 5° 15.9 10° 15.9	0° 16.9 5° 16.8 10° 16.6	0° 17.6 5° 17.6 10° 17.2
Beamwidth, Horizontal Tolerance, degrees	±2.4	±2.6	±2.5	±3	±2.4	±5.7
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.6	±0.3	±0.8	±0.7	±0.7
USLS, beampeak to 20° above beampeak, dB	18	18	18	18	18	18
Front-to-Back Total Power at 180° ± 30°, dB	26	26	25	30	30	31
CPR at Boresight, dB	23	19	18	23	21	13
CPR at Sector, dB	13	14	12	13	11	2

Mechanical Specifications

Wind Loading @ Velocity, frontal	1,673.0 N @ 150 km/h (376.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	374.0 N @ 150 km/h (84.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	1,764.0 N @ 150 km/h (396.6 lbf @ 150 km/h)
Wind Speed, maximum	250 km/h (155 mph)

Packaging and Weights

Width, packed	739 mm 29.095 in
Depth, packed	371 mm 14.606 in
Length, packed	2280 mm 89.764 in
Weight, gross	83 kg 182.983 lb

Regulatory Compliance/Certifications

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

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ROHS Compliant/Exempted

UK-ROHS Compliant/Exempted



Included Products

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|--------------|---|--|
| ATCB-B01-C50 | - | AISG RET Control Cable, 0.5 m |
| 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