

R2V4PX306R-V2



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 31, 2023**

Replaced By:

RRV4-65A-R6

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	4.3-10 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
Internal RET	High band (4) Low band (2)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W

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Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 641 mm | 25.236 in

Depth 244 mm | 9.606 in

Length 1607 mm | 63.268 in

Net Weight, without mounting kit 48.2 kg | 106.263 lb

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1710 – 2690 MHz | 698 – 960 MHz

Polarization $\pm 45^\circ$

Electrical Specifications

Frequency Band, MHz	698–790	790–890	890–960	1710–1920	1920–2170	2300–2690
Gain, dBi	14.2	14.6	15	15.4	16.3	16.9
Beamwidth, Horizontal, degrees	65	63	60	62	57	58

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Beamwidth, Vertical, degrees	16.3	14.5	13.3	13.7	12.1	9.9
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	34	32	30	32	35	37
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

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	13.8	14.4	14.8	14.9	15.9	16.5
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3	±0.2	±0.7	±0.4	±0.6
Gain by Beam Tilt, average, dBi	0° 13.8 5° 13.8 10° 13.8	0° 14.4 5° 14.4 10° 14.4	0° 14.8 5° 14.8 10° 14.8	0° 15.0 5° 14.9 10° 14.8	0° 16.0 5° 15.9 10° 15.6	0° 16.6 5° 16.6 10° 16.3
Beamwidth, Horizontal Tolerance, degrees	±2.3	±2.3	±2.4	±5	±2.6	±5.3
Beamwidth, Vertical Tolerance, degrees	±1	±0.8	±0.4	±1	±1	±0.9
USLS, beampeak to 20° above beampeak, dB	18	18	18	18	18	18
Front-to-Back Total Power at 180° ± 30°, dB	26	26	24	29	31	31
CPR at Boresight, dB	23	16	15	22	21	14
CPR at Sector, dB	15	13	11	11	10	3

Mechanical Specifications

Mechanical Tilt Range	0°–12°
Wind Loading @ Velocity, frontal	1,296.0 N @ 150 km/h (291.4 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	274.0 N @ 150 km/h (61.6 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	1,367.0 N @ 150 km/h (307.3 lbf @ 150 km/h)
Wind Speed, maximum	250 km/h (155 mph)

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Packaging and Weights

Width, packed	739 mm 29.095 in
Depth, packed	347 mm 13.661 in
Length, packed	1810 mm 71.26 in
Weight, gross	72.2 kg 159.174 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Below 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
UK-ROHS	Compliant



Included Products

ATCB-B01-C50	-	AISG RET Control Cable, 0.5 m
T-041-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
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