

# 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

|   |  |
|---|--|
| <b>Antenna Type</b>                     | Sector   |
| <b>Band</b>                             | Multiband  |
| <b>Grounding Type</b>                   | RF connector inner conductor and body grounded to reflector and mounting bracket |
| <b>Performance Note</b>                 | Outdoor usage  |
| <b>Radome Material</b>                  | ASA, UV stabilized   |
| <b>Radiator Material</b>                | Brass   Low loss circuit board   |
| <b>Reflector Material</b>               | Aluminum   |
| <b>RF Connector Interface</b>           | 4.3-10 Female  |
| <b>RF Connector Location</b>            | Bottom   |
| <b>RF Connector Quantity, high band</b> | 8  |
| <b>RF Connector Quantity, mid band</b>  | 0  |
| <b>RF Connector Quantity, low band</b>  | 4  |
| <b>RF Connector Quantity, total</b>     | 12   |

## Remote Electrical Tilt (RET) Information

|   |                                   |
|---|-----------------------------------|
| <b>RET Interface</b>                          | 8-pin DIN Female   8-pin DIN Male |
| <b>RET Interface, quantity</b>                | 2 female   2 male                 |
| <b>Input Voltage</b>                          | 10–30 Vdc                         |
| <b>Internal RET</b>                           | High band (4)   Low band (2)      |
| <b>Power Consumption, idle state, maximum</b> | 2 W                               |

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|  |                            |
|--|----------------------------|
| <b>Power Consumption, normal conditions, maximum</b> | 13 W                       |
| <b>Protocol</b>                                      | 3GPP/AISG 2.0 (Single RET) |

## Dimensions

|   |                      |
|---|----------------------|
| <b>Width</b>                            | 641 mm   25.236 in   |
| <b>Depth</b>                            | 244 mm   9.606 in    |
| <b>Length</b>                           | 1607 mm   63.268 in  |
| <b>Net Weight, without mounting kit</b> | 48.2 kg   106.263 lb |

## Port Configuration



## Electrical Specifications

|                                 |                                 |
|---------------------------------|---------------------------------|
| <b>Impedance</b>                | 50 ohm                          |
| <b>Operating Frequency Band</b> | 1710 – 2690 MHz   698 – 960 MHz |
| <b>Polarization</b>             | ±45°                            |

## Electrical Specifications

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

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## degrees

|   |             |             |             |            |            |            |
|---|-------------|-------------|-------------|------------|------------|------------|
| <b>Beamwidth, Vertical, degrees</b>         | 16.3        | 14.5        | 13.3        | 13.7       | 12.1       | 9.9        |
| <b>Beam Tilt, degrees</b>                   | 0–10        | 0–10        | 0–10        | 0–10       | 0–10       | 0–10       |
| <b>USLS (First Lobe), dB</b>                | 18          | 18          | 18          | 18         | 18         | 18         |
| <b>Front-to-Back Ratio at 180°, dB</b>      | 34          | 32          | 30          | 32         | 35         | 37         |
| <b>Isolation, Cross Polarization, dB</b>    | 25          | 25          | 25          | 25         | 25         | 25         |
| <b>Isolation, Inter-band, dB</b>            | 30          | 30          | 30          | 30         | 30         | 30         |
| <b>VSWR   Return loss, dB</b>               | 1.43   15.0 | 1.43   15.0 | 1.43   15.0 | 1.5   14.0 | 1.5   14.0 | 1.5   14.0 |
| <b>PIM, 3rd Order, 2 x 20 W, dBc</b>        | -150        | -150        | -150        | -150       | -150       | -150       |
| <b>Input Power per Port, maximum, watts</b> | 300         | 300         | 300         | 250        | 250        | 250        |

## Mechanical Specifications

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

## Packaging and Weights

|                       |                      |
|-----------------------|----------------------|
| <b>Width, packed</b>  | 739 mm   29.095 in   |
| <b>Depth, packed</b>  | 347 mm   13.661 in   |
| <b>Length, packed</b> | 1810 mm   71.26 in   |
| <b>Weight, gross</b>  | 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 <a href="http://www.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a> |
| ROHS          | Compliant  |
| UK-ROHS       | Compliant  |

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## 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