

4-port sector antenna, 2x 694–960 and 2x 1695–2690 MHz, 65° HPBW, RET compatible

Utilizes AccuRET® actuator(s) on the back of the antenna

OBSOLETE

This product was discontinued on: March 31, 2023

Replaced By:

RV-65A-R2 4-port sector antenna, 2x 694–960 and 2x 1695–2690 MHz, 65° HPBW, 2x RET

General Specifications

Antenna Type Sector

Band Multiband

ColorLight 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 Aluminum | Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 7-16 DIN Female

RF Connector Location Bottom

RF Connector Quantity, high band 2
RF Connector Quantity, low band 2
RF Connector Quantity, total 4

Dimensions

 Width
 301 mm | 11.85 in

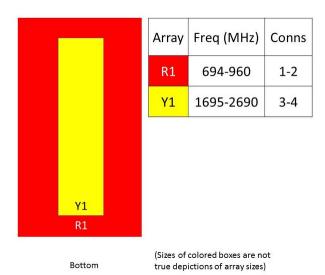
 Depth
 181 mm | 7.126 in

 Length
 1412 mm | 55.591 in

 Net Weight, without mounting kit
 17.1 kg | 37.699 lb



Array Layout



Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 800 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	694-703	703-790	790-890	890-960	1695-1920	1920-2180	2300-2690
Gain, dBi	13.6	13.7	14	14.3	17.1	17.5	18.1
Beamwidth, Horizontal, degrees	72	73	71	69	64	65	60
Beamwidth, Vertical, degrees	17.3	16.6	15.3	14	7.2	6.4	5.3
Beam Tilt, degrees	2-15	2-15	2-15	2-15	2-12	2-12	2-12
USLS (First Lobe), dB	20	20	19	17	16	14	14
Front-to-Back Ratio at 180°,	27	29	33	31	28	30	31

Page 3 of 5



dB							
Isolation, Cross Polarization, dB	25	28	28	28	28	28	28
Isolation, Inter-band, dB	30	30	30	30	30	30	30
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 at 50°C, maximum, watts	300	300	300	300	250	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	694-703	703-790	790-890	890-960	1695-1920	1920-2180	2300-2690
Gain by all Beam Tilts, average, dBi	13.5	13.5	13.8	14	16.6	17.2	17.8
Gain by all Beam Tilts Tolerance, dB	±0.2	±0.3	±0.3	±0.5	±0.8	±0.5	±0.6
Gain by Beam Tilt, average, dBi	2° 13.5 8° 13.5 15° 13.6	2° 13.6 8° 13.6 15° 13.4	2° 13.9 8° 13.8 15° 13.6	2° 14.2 8° 14.1 15° 13.7	2° 16.6 7° 16.8 12° 16.3	2° 17.1 7° 17.4 12° 16.9	2° 17.8 7° 18.0 12° 17.1
Beamwidth, Horizontal Tolerance, degrees	±1.2	±1.5	±1.6	±3	±7.3	±7.2	±4.7
Beamwidth, Vertical Tolerance, degrees	±0.7	±1.2	±1	±1.1	±0.5	±0.6	±0.3
USLS, beampeak to 20° above beampeak, dB	18	19	20	16	12	13	12
Front-to-Back Total Power at 180° ± 30°, dB	21	24	23	22	23	23	24
CPR at Boresight, dB	20	20	21	19	15	17	21
CPR at Sector, dB	8	8	9	9	11	11	7

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 205.0 N @ 150 km/h (46.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 169.0 N @ 150 km/h (38.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 396.0 N @ 150 km/h (89.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 208.0 N @ 150 km/h (46.8 lbf @ 150 km/h)

 Wind Speed, maximum
 241 km/h (150 mph)

Packaging and Weights

 Width, packed
 429 mm | 16.89 in

 Depth, packed
 329 mm | 12.953 in

COMMSCOPE®

 Length, packed
 1672 mm | 65.827 in

 Weight, gross
 30.5 kg | 67.241 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

ROHS Compliant/Exempted UK-ROHS Compliant/Exempted



Included Products

BSAMNT-OFFSET – Forward Offset Pipe Mounting Kit for 4.5 in (114.3 mm) OD round

members

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

