

4-port sector antenna, 2x790-960 and 2x1710-2690 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:

4P-2L2M-B2 4-port sector antenna, 2x 694–960 and 2x 1695–2690 MHz, 65° HPBW, 2x RET

General Specifications

RF Connector Quantity, low band

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

Grounding TypeRF 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

RF Connector Interface 7-16 DIN Female

RF Connector LocationBottom

RF Connector Quantity, high band 2

RF Connector Quantity, total 4

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator CV65BSX-2X2

Dimensions

 Width
 301 mm | 11.85 in

 Depth
 181 mm | 7.126 in

 Length
 1974 mm | 77.717 in

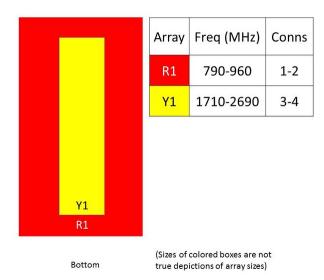
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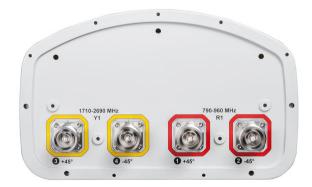
Net Weight, without mounting kit

17.9 kg | 39.463 lb

Array Layout



Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1710 – 2690 MHz | 790 – 960 MHz

Polarization ±45°

Electrical Specifications

Frequency Band, MHz	790-896	870-960	1710-1880	1850-1990	1920-2180	2300-2500	2500-2690
Gain, dBi	15.6	15.6	17.4	17.7	18.1	18	18.2
Beamwidth, Horizontal, degrees	63	62	71	66	67	57	58
Beamwidth, Vertical, degrees	10.5	9.7	5.6	5.3	5	4.3	4.1
Beam Tilt, degrees	0-10	0-10	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	14	16	15	16	16	15	16
Front-to-Back Ratio at 180°, dB	29	29	28	25	23	29	30
CPR at Boresight, dB	23	22	20	20	20	16	18
CPR at Sector, dB	10	10	9	7	7	5.3	7
Isolation, Cross Polarization, dB	28	28	28	28	28	28	28
Isolation, Inter-band, dB	30	30	30	30	30	30	30

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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, maximum, watts	350	350	350	350	350	300	300

Electrical Specifications, BASTA

Frequency Band, MHz	790-896	870-960	1710-1880	1850-1990	1920-2180	2300-2500	2500-2690
Gain by all Beam Tilts, average, dBi	15.3	15.4	17.2	17.5	17.6	17.7	18
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.3	±0.3	±0.5	±0.6	±0.4
Gain by Beam Tilt, average, dBi	0° 15.4 5° 15.4 10° 15.1	0° 15.4 5° 15.5 10° 15.1	2° 17.1 7° 17.3 12° 17.2	2° 17.4 7° 17.6 12° 17.4	2° 17.5 7° 17.7 12° 17.6	2° 17.6 7° 17.9 12° 17.5	2° 17.8 7° 18.1 12° 17.7
Beamwidth, Horizontal Tolerance, degrees	±2.7	±1.9	±4.6	±2.4	±2.4	±3.5	±4.5
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.6	±0.3	±0.3	±0.3	±0.2	±0.2
USLS, beampeak to 20° above beampeak, dB	16	16	16	17	17	16	18
Front-to-Back Total Power at 180° ± 30°, dB	25	25	26	24	22	22	24
CPR at Boresight, dB	25	25	20	21	20	16	18
CPR at Sector, dB	11	11	12	9	9	5	7

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 306.0 N @ 150 km/h (68.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 253.0 N @ 150 km/h (56.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 589.0 N @ 150 km/h (132.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 310.0 N @ 150 km/h (69.7 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 441 mm | 17.362 in

 Depth, packed
 337 mm | 13.268 in

 Length, packed
 2108 mm | 82.992 in

 Weight, gross
 34.6 kg | 76.28 lb

Regulatory Compliance/Certifications

COMMSCOPE®

Agency Classification

CE Compliant with the relevant CE product directives

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

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