



4-port sector antenna, 2x 790–960 and 2x 1710–2180 MHz, 65° HPBW, RET compatible

Electrical Specifications

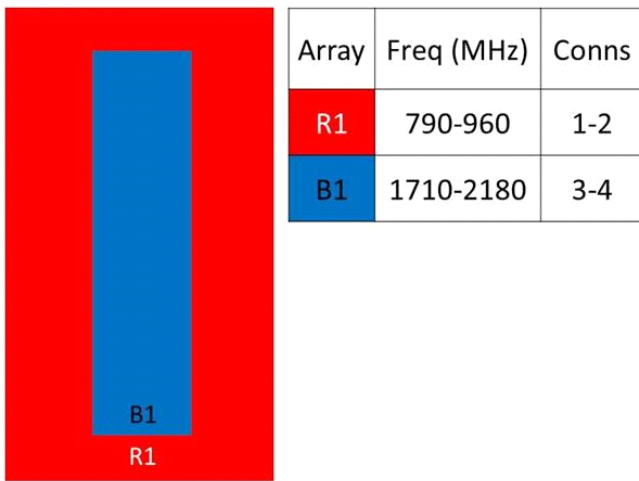
Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180
Gain, dBi	15.8	16.7	18.7	18.6	18.3
Beamwidth, Horizontal, degrees	68	65	63	62	62
Beamwidth, Vertical, degrees	10.0	9.3	5.2	5.0	4.8
Beam Tilt, degrees	2–12	2–12	1–8	1–8	1–8
USLS (First Lobe), dB	15	15	15	15	15
Front-to-Back Ratio at 180°, dB	28	29	33	32	31
Isolation, Cross Polarization, dB	30	30	30	30	30
Isolation, Inter-band, dB	37	35	40	40	40
VSWR Return Loss, dB	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
Input Power per Port, maximum, watts	500	500	400	400	400
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	790–896	870–960	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	15.9	16.3	18.1	18.0	17.9
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.3	±0.3	±0.3	±0.4
Gain by Beam Tilt, average, dBi	2 ° 16.0 7 ° 15.9 12 ° 15.6	2 ° 16.3 7 ° 16.4 12 ° 15.9	1 ° 18.1 4 ° 18.2 8 ° 18.0	1 ° 18.0 4 ° 18.0 8 ° 17.8	1 ° 17.9 4 ° 18.0 8 ° 17.8
Beamwidth, Horizontal Tolerance, degrees	±2.3	±2.5	±2.4	±2.6	±3.4
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.4	±0.2	±0.2	±0.3
USLS, beampeak to 20° above beampeak, dB	17	18	16	16	15
Front-to-Back Total Power at 180° ± 30°, dB	24	23	29	28	26
CPR at Boresight, dB	26	24	18	16	14
CPR at Sector, dB	15	10	10	11	12

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs.](#)

Array Layout



Bottom

(Sizes of colored boxes are not true depictions of array sizes)

General Specifications

Operating Frequency Band	1710 – 2180 MHz 790 – 960 MHz
Antenna Type	Sector
Band	Multiband
Performance Note	Outdoor usage

Mechanical Specifications

RF Connector Quantity, total	4
RF Connector Quantity, low band	2
RF Connector Quantity, high band	2
RF Connector Interface	7-16 DIN Female
Color	Light gray
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Radiator Material	Aluminum Low loss circuit board
Radome Material	Fiberglass, UV resistant
RF Connector Location	Bottom
Wind Loading, frontal	681.0 N @ 150 km/h 153.1 lbf @ 150 km/h
Wind Loading, lateral	216.0 N @ 150 km/h 48.6 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 150 mph

Dimensions

Length	1998.0 mm 78.7 in
Width	301.0 mm 11.9 in
Depth	181.0 mm 7.1 in
Net Weight, without mounting kit	22.8 kg 50.3 lb

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator DBXDH-6565B-A2M

Packed Dimensions

Length	2314.0 mm 91.1 in
Width	411.0 mm 16.2 in
Depth	284.0 mm 11.2 in
Shipping Weight	35.0 kg 77.2 lb

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
ISO 9001:2015
China RoHS SJ/T 11364-2014
CE

Classification

Compliant by Exemption
Designed, manufactured and/or distributed under this quality management system
Above Maximum Concentration Value (MCV)
Compliant with the relevant CE product directives



Included Products

BSAMNT-3 — Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance