



4-port sector antenna, 4x 1710–2180 MHz, 90° HPBW, RET compatible

- Enhanced control of out-of-sector power improves co-channel interference, reduces softer hand-offs, improves capacity

## Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain, dBi	16.0	16.0	16.2
Beamwidth, Horizontal, degrees	88	88	88
Beamwidth, Vertical, degrees	7.5	7.1	6.7
Beam Tilt, degrees	0–10	0–10	0–10
USLS (First Lobe), dB	17	17	18
Front-to-Back Ratio at 180°, dB	30	30	30
CPR at Boresight, dB	17	17	16
CPR at Sector, dB	8	9	8
Isolation, Cross Polarization, dB	30	30	30
VSWR   Return Loss, dB	1.4   15.6	1.4   15.6	1.4   15.6
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
Input Power per Port, maximum, watts	350	350	350
Polarization	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm

## Electrical Specifications, BASTA\*

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	15.9	15.9	16.0
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.4
Gain by Beam Tilt, average, dBi	0 °   15.9 5 °   16.1 10 °   15.7	0 °   15.9 5 °   16.1 10 °   15.7	0 °   16.0 5 °   16.2 10 °   15.7
Beamwidth, Horizontal Tolerance, degrees	±4.7	±3.1	±3.8
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.4	±0.5
USLS, beampeak to 20° above beampeak, dB	17	18	18
Front-to-Back Total Power at 180° ± 30°, dB	21	21	21
CPR at Boresight, dB	19	20	20
CPR at Sector, dB	8	8	8

\* 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.](#)

## General Specifications

<b>Operating Frequency Band</b>	1710 – 2180 MHz
<b>Antenna Type</b>	Sector
<b>Band</b>	Single band
<b>Performance Note</b>	Outdoor usage

## Mechanical Specifications

<b>RF Connector Quantity, total</b>	4
<b>RF Connector Quantity, high band</b>	4
<b>RF Connector Interface</b>	7-16 DIN Female
<b>Color</b>	Light gray
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Radiator Material</b>	Low loss circuit board
<b>Radome Material</b>	PVC, UV resistant
<b>RF Connector Location</b>	Bottom
<b>Wind Speed, maximum</b>	241 km/h   150 mph

## Dimensions

<b>Length</b>	1297.0 mm   51.1 in
<b>Width</b>	305.0 mm   12.0 in
<b>Depth</b>	166.0 mm   6.5 in
<b>Net Weight, without mounting kit</b>	13.5 kg   29.8 lb

## Remote Electrical Tilt (RET) Information

**Model with Factory Installed AISG 2.0 Actuator** HBXX-9014DS-A2M

## Packed Dimensions

<b>Length</b>	1609.0 mm   63.3 in
<b>Width</b>	409.0 mm   16.1 in
<b>Depth</b>	292.0 mm   11.5 in
<b>Shipping Weight</b>	22.1 kg   48.7 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
RoHS 2011/65/EU	Compliant by Exemption
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)
CE	Compliant with the relevant CE product directives



## Included Products

600899A-2 — 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