

# HH45A-2XB1



4-port sector antenna, 4x 1710–2180 MHz, 45° HPBW, 2x RET. An Internal Smart Bias Tee is configured on Port 1. Ideal for capacity optimization and supports 4 x 4 MIMO.

## OBSOLETE

This product was discontinued on: September 30, 2020

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Single band
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	4
<b>RF Connector Quantity, total</b>	4

## Remote Electrical Tilt (RET) Information

<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal Bias Tee</b>	Port 1
<b>Internal RET</b>	High band (2)
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Power Consumption, normal conditions, maximum</b>	13 W
<b>Protocol</b>	3GPP/AISG 2.0 (Multi-RET)

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## Dimensions

<b>Width</b>	407 mm   16.024 in
<b>Depth</b>	120 mm   4.724 in
<b>Length</b>	1278 mm   50.315 in
<b>Net Weight, without mounting kit</b>	14.7 kg   32.408 lb

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1710 – 2180 MHz
<b>Polarization</b>	±45°

## Electrical Specifications

<b>Frequency Band, MHz</b>	<b>1710–1880</b>	<b>1850–1990</b>	<b>1920–2180</b>
<b>Gain, dBi</b>	18.2	18.9	19.2
<b>Beamwidth, Horizontal, degrees</b>	46	44	43
<b>Beamwidth, Vertical, degrees</b>	7.4	7	6.6
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	17	16	16
<b>Front-to-Back Ratio at 180°, dB</b>	35	30	28
<b>Isolation, Cross Polarization, dB</b>	28	28	28
<b>Isolation, Inter-band, dB</b>	30	30	30
<b>VSWR   Return loss, dB</b>	1.5   14.0	1.5   14.0	1.5   14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153
<b>Input Power per Port, maximum, watts</b>	300	300	300

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	577.0 N @ 150 km/h (129.7 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	88.0 N @ 150 km/h (19.8 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	675.0 N @ 150 km/h (151.7 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	552 mm   21.732 in
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<b>Depth, packed</b>	292 mm   11.496 in
<b>Length, packed</b>	1403 mm   55.236 in
<b>Weight, gross</b>	26.2 kg   57.761 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



## 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