

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

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

Remote Electrical Tilt (RET) Information

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

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Dimensions

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

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1710 – 2180 MHz
Polarization	±45°

Electrical Specifications

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

Electrical Specifications, BASTA

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	17.8	18.5	18.8
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.4
Gain by Beam Tilt, average, dBi	2° 17.7 7° 17.9 12° 17.8	2° 18.3 7° 18.6 12° 18.5	2° 18.6 7° 18.9 12° 18.5
Beamwidth, Horizontal Tolerance, degrees	±2.5	±1.9	±2.1
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.3	±0.5
USLS, beampeak to 20° above beampeak, dB	15	18	18

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Front-to-Back Total Power at 180° ± 30°, dB	27	26	26
CPR at Boresight, dB	17	17	16
CPR at Sector, dB	11	13	14

Mechanical Specifications

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

Packaging and Weights

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

Regulatory Compliance/Certifications

Agency	Classification
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 www.commscope.com/ProductCompliance
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.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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