2HH-38A-R4-V2



8-port multibeam antenna, 8x 1695–2200 MHz, 4x 38° HPBW, 4x RET

- Enhances network capacity through six sectors site application with only three antenna faces
- Maximizes frequency spectrum utilization to increase Average Revenue Per User (ARPU)
- Reduces antenna count to minimize Cap-Ex and Op-Ex costs
- High gain with excellent sector edge roll-off and azimuth sidelobe suppression
- Each antenna downtilt can be independently adjusted for greater flexibility in network optimization

General Specifications

Antenna Type Multibeam

Band Single band

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 MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 8
RF Connector Quantity, mid band 0
RF Connector Quantity, low band 0
RF Connector Quantity, total 8

Remote Electrical Tilt (RET) Information

RET Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 1 female | 1 male

Input Voltage10-30 VdcInternal RETHigh band (4)

Power Consumption, idle state, maximum 1 W
Power Consumption, normal conditions, maximum 10 W

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Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

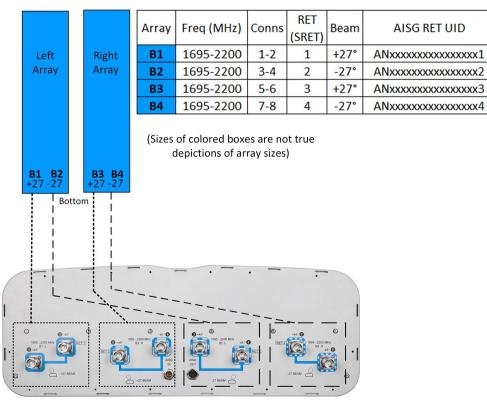
Width 640 mm | 25.197 in

Depth 235 mm | 9.252 in

Length 1224 mm | 48.189 in

Net Weight, without mounting kit 29.7 kg | 65.477 lb

Array Layout



Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2200 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	1695-1880	1850-1990	1920-2200
Gain, dBi	19.3	19.7	20
Beam Centers, Horizontal, degrees	±27	±27	±27
Beamwidth, Horizontal, degrees	38	35.8	34
Beamwidth, Vertical, degrees	7.7	7.3	6.8
Beam Tilt, degrees	2-10	2-10	2-10
Horizontal Sidelobe, dB	24	24	23
USLS (First Lobe), dB	24	24	24
Front-to-Back Ratio at 180°, dB	36	36	34
Isolation, Cross Polarization, dB	30	30	30
Isolation, Inter-band, dB	17	17	17
VSWR Return loss, dB	1.43 15.0	1.43 15.0	1.43 15.0

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PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	200	200	200

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 505.0 N @ 150 km/h (113.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 156.0 N @ 150 km/h (35.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 688.0 N @ 150 km/h (154.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 520.0 N @ 150 km/h (116.9 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 752 mm | 29.606 in

 Depth, packed
 387 mm | 15.236 in

 Length, packed
 1379 mm | 54.291 in

 Weight, gross
 44.1 kg | 97.224 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above 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/Exempted
UK-ROHS	Compliant/Exempted



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 NoteSevere environmental conditions may degrade optimum performance

