

DHHTT65B-3XR



10-port sector antenna, 2x 790–960, 4x 1710–2180 and 4x 2490–2690 MHz, 65° HPBW, 3x RET with individual tilt available for the 850 MHz band, 1900 MHz bands and 2500 MHz bands.

OBSOLETE

This product was discontinued on: **March 31, 2022**

Replaced By:

RV4-65B-R5-V2

10-port sector antenna, 2x 694–960 and 8x 1695–2690 MHz, 65° HPBW, 5x RET

General Specifications

| | |
|---|--|
| Antenna Type | Sector |
| Band | Multiband |
| Color | Light Gray (RAL 7035) |
| Grounding Type | RF 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 Material | ASA, UV stabilized |
| Radiator Material | Copper Low loss circuit board |
| Reflector Material | Aluminum |
| RF Connector Interface | 4.1-9.5 DIN Female 7-16 DIN Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, high band | 8 |
| RF Connector Quantity, low band | 2 |
| RF Connector Quantity, total | 10 |

Remote Electrical Tilt (RET) Information

| | |
|--------------------------------|-----------------------------------|
| RET Interface | 8-pin DIN Female 8-pin DIN Male |
| RET Interface, quantity | 1 female 1 male |

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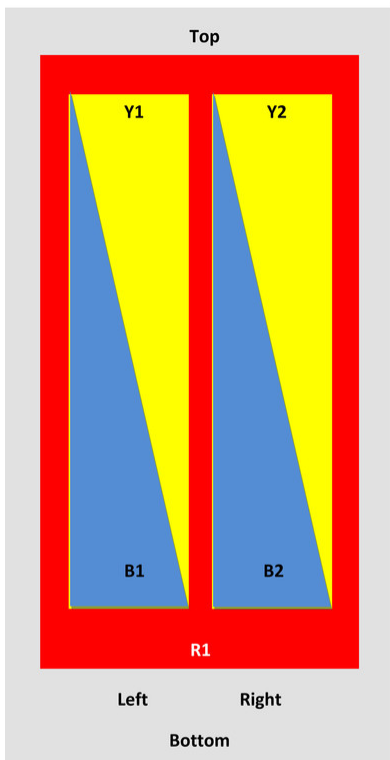
| | |
|--|---------------------------|
| Input Voltage | 10–30 Vdc |
| Power Consumption, idle state, maximum | 2 W |
| Power Consumption, normal conditions, maximum | 13 W |
| Protocol | 3GPP/AISG 2.0 (Multi-RET) |

Dimensions

| | |
|---|---------------------|
| Width | 301 mm 11.85 in |
| Depth | 181 mm 7.126 in |
| Length | 1832 mm 72.126 in |
| Net Weight, without mounting kit | 20.6 kg 45.415 lb |

Array Layout

DHHTT65B-3XR



| Array | Freq (MHz) | Conns | RET (MRET) | AISG RET UID |
|-------|------------|-------|------------|----------------------|
| R1 | 790-960 | 1-2 | 1 | AXXXXXXXXXXXXXXXXX.1 |
| B1 | 1710-2180 | 3-4 | 2 | AXXXXXXXXXXXXXXXXX.2 |
| B2 | 1710-2180 | 5-6 | 3 | AXXXXXXXXXXXXXXXXX.3 |
| Y1 | 2490-2690 | 7-8 | 4 | AXXXXXXXXXXXXXXXXX.4 |
| Y2 | 2490-2690 | 9-10 | 5 | AXXXXXXXXXXXXXXXXX.5 |

View from the front of the antenna
(Sizes of colored boxes are not true depictions of array sizes)

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Electrical Specifications

| | |
|---------------------------------|---|
| Impedance | 50 ohm |
| Operating Frequency Band | 1710 – 2180 MHz 2490 – 2690 MHz 790 – 960 MHz |
| Polarization | ±45° |

Electrical Specifications

| Frequency Band, MHz | 790–896 | 870–960 | 1710–1880 | 1850–1990 | 1920–2180 | 2490–2690 |
|---|--------------------|--------------------|--------------------|--------------------|--------------------|-----------------------|
| Connector Interface | 7-16 DIN Female | 7-16 DIN Female | 7-16 DIN Female | 7-16 DIN Female | 7-16 DIN Female | 4.1-9.5 DIN Female |
| Connector Location | Bottom | Bottom | Bottom | Bottom | Bottom | Bottom |
| Gain, dBi | 15.5 | 15.5 | 17.3 | 17.4 | 17.5 | 17.2 |
| Beamwidth, Horizontal, degrees | 64 | 63 | 71 | 69 | 66 | 60 |
| Beamwidth, Vertical, degrees | 11.2 | 10.3 | 5.6 | 5.4 | 5.1 | 4.3 |
| Beam Tilt, degrees | 0–10 | 0–10 | 0–8 | 0–8 | 0–8 | 0–8 |
| USLS (First Lobe), dB | 15 | 16 | 15 | 16 | 15 | 18 |
| Front-to-Back Ratio at 180°, dB | 28 | 31 | 31 | 29 | 25 | 26 |
| CPR at Boresight, dB | 20 | 19 | 20 | 20 | 18 | 16 |
| CPR at Sector, dB | 9 | 9 | 9 | 9 | 7 | 4 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 | 25 | 25 | 25 |
| Isolation, Inter-band, dB | 30 | 30 | 30 | 30 | 30 | 30 |
| VSWR Return loss, dB | 1.5 14.0 | 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 | -153 | -153 | -153 | -153 | -153 | -150 |
| Input Power per Port, maximum, watts | 350 | 350 | 300 | 300 | 300 | 250 |

Electrical Specifications, BASTA

| Frequency Band, MHz | 790–896 | 870–960 | 1710–1880 | 1850–1990 | 1920–2180 | 2490–2690 |
|---|--------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Gain by all Beam Tilts, average, dBi | 15 | 15.1 | 17 | 17.1 | 17.1 | 17.1 |
| Gain by all Beam Tilts Tolerance, dB | ±0.4 | ±0.3 | ±0.3 | ±0.3 | ±0.3 | ±0.6 |
| Gain by Beam Tilt, average, dBi | 0° 15.0 5° 15.1 10° 15.0 | 0° 15.0 5° 15.1 10° 15.0 | 0° 16.8 4° 17.0 8° 17.0 | 0° 17.0 4° 17.1 8° 17.1 | 0° 17.0 4° 17.1 8° 17.1 | 0° 17.1 4° 17.2 8° 17.0 |
| Beamwidth, Horizontal | ±2.5 | ±1.8 | ±3.2 | ±2.7 | ±5 | ±6.6 |

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Tolerance, degrees

| | | | | | | |
|--|------|------|------|------|------|------|
| Beamwidth, Vertical Tolerance, degrees | ±0.8 | ±0.6 | ±0.2 | ±0.2 | ±0.4 | ±0.3 |
| USLS, beampeak to 20° above beampeak, dB | 16 | 17 | 16 | 17 | 16 | 19 |
| Front-to-Back Total Power at 180° ± 30°, dB | 24 | 26 | 26 | 25 | 23 | 23 |
| CPR at Boresight, dB | 21 | 20 | 22 | 22 | 21 | 16 |
| CPR at Sector, dB | 9 | 10 | 13 | 10 | 8 | 5 |

Mechanical Specifications

| | |
|---|---|
| Wind Loading @ Velocity, frontal | 279.0 N @ 150 km/h (62.7 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 231.0 N @ 150 km/h (51.9 lbf @ 150 km/h) |
| Wind Loading @ Velocity, maximum | 538.0 N @ 150 km/h (120.9 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 283.0 N @ 150 km/h (63.6 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Packaging and Weights

| | |
|-----------------------|---------------------|
| Width, packed | 409 mm 16.102 in |
| Depth, packed | 299 mm 11.772 in |
| Length, packed | 1954 mm 76.929 in |
| Weight, gross | 33.2 kg 73.193 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| 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 |



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 |
|-------------------------|---|

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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 115 mm | 4.528 in

Compatible Diameter, minimum 60 mm | 2.362 in

Weight, net 6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 6.4 kg | 14.11 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 |

BSAMNT-3

