

NNV4-65C-R6-HG



12-port sector antenna, 4x 698–896 and 8x 1695–2690 MHz, 65° HPBW, 6x RET.

- Antenna design optimized to offer high gain performances
- Excellent choice to maximize both coverage and capacity in suburban and rural applications

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 |
| Radome Material | Fiberglass, UV resistant |
| Reflector Material | Aluminum |
| RF Connector Interface | 4.3-10 Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, mid band | 8 |
| RF Connector Quantity, low band | 4 |
| RF Connector Quantity, total | 12 |

Remote Electrical Tilt (RET) Information

| | |
|---|-----------------------------------|
| RET Hardware | CommRET v2 |
| RET Interface | 8-pin DIN Female 8-pin DIN Male |
| RET Interface, quantity | 1 female 1 male |
| Input Voltage | 10–30 Vdc |
| Internal RET | Low band (2) Mid band (4) |
| Power Consumption, active state, maximum | 8 W |
| Power Consumption, idle state, maximum | 1 W |
| Protocol | 3GPP/AISG 2.0 (Multi-RET) |

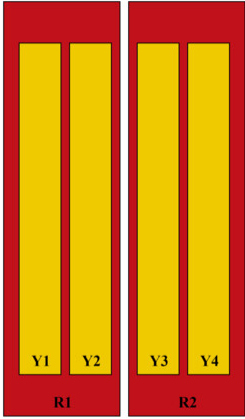
Dimensions

| | |
|--------------|--------------------|
| Width | 640 mm 25.197 in |
|--------------|--------------------|

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Depth 235 mm | 9.252 in
Length 2438 mm | 95.984 in

Array Layout



| Array ID | Frequency (MHz) | RF Connector | RET (MRET) | AISG No. | AISG RET UID |
|----------|-----------------|--------------|------------|----------|--------------------|
| R1 | 698-896 | 1 - 2 | 1 | AISG1 | CPxxxxxxxxxxxxMM.1 |
| R2 | 698-896 | 3 - 4 | 2 | AISG1 | CPxxxxxxxxxxxxMM.2 |
| Y1 | 1695-2690 | 5 - 6 | 3 | AISG1 | CPxxxxxxxxxxxxMM.3 |
| Y2 | 1695-2690 | 7 - 8 | 4 | AISG1 | CPxxxxxxxxxxxxMM.4 |
| Y3 | 1695-2690 | 9 - 10 | 5 | AISG1 | CPxxxxxxxxxxxxMM.5 |
| Y4 | 1695-2690 | 11 - 12 | 6 | AISG1 | CPxxxxxxxxxxxxMM.6 |

(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration



Electrical Specifications

Impedance 50 ohm
Operating Frequency Band 1695 – 2690 MHz | 698 – 896 MHz

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| | |
|-----------------------------------|---------------|
| Polarization | ±45° |
| Total Input Power, maximum | 900 W @ 50 °C |

Electrical Specifications

| Frequency Band, MHz | 698–806 | 824–896 | 1695–1880 | 1850–1990 | 1920–2200 | 2300–2360 | 2490–2690 |
|---|----------------|----------------|------------------|------------------|------------------|------------------|------------------|
| Gain, dBi | 16.2 | 16.6 | 19.3 | 19.6 | 19.9 | 19.9 | 19.8 |
| Beamwidth, Horizontal, degrees | 68 | 64 | 61 | 59 | 60 | 64 | 69 |
| Beamwidth, Vertical, degrees | 9.6 | 8.2 | 4.3 | 4.1 | 3.9 | 3.5 | 3.2 |
| Beam Tilt, degrees | 0–10 | 0–10 | 0–7 | 0–7 | 0–7 | 0–7 | 0–7 |
| USLS (First Lobe), dB | 18 | 18 | 22 | 24 | 22 | 19 | 17 |
| Front-to-Back Ratio at 180°, dB | 32 | 32 | 35 | 34 | 32 | 36 | 33 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Isolation, Inter-band, dB | 25 | 25 | 28 | 28 | 28 | 28 | 28 |
| 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 | 1.5 14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc | -150 | -150 | -150 | -150 | -150 | -150 | -150 |
| Input Power per Port at 50°C, maximum, watts | 200 | 200 | 200 | 200 | 200 | 150 | 150 |

Mechanical Specifications

| | |
|---|---|
| Wind Loading @ Velocity, frontal | 1,055.0 N @ 150 km/h (237.2 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 355.0 N @ 150 km/h (79.8 lbf @ 150 km/h) |
| Wind Loading @ Velocity, maximum | 1,433.0 N @ 150 km/h (322.2 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 1,086.0 N @ 150 km/h (244.1 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Packaging and Weights

| | |
|-----------------------|----------------------|
| Width, packed | 752 mm 29.606 in |
| Depth, packed | 382 mm 15.039 in |
| Length, packed | 2590 mm 101.969 in |
| Weight, gross | 89.5 kg 197.313 lb |
| Weight, net | 65.5 kg 144.403 lb |

Regulatory Compliance/Certifications

NNV4-65C-R6-HG

Agency

ISO 9001:2015

Classification

Designed, manufactured and/or distributed under this quality management system

Included Products

- BSAMNT-4 – 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.
- BSAMNT-M4 – Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance

BSAMNT-4



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 6.5 kg | 14.33 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| 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-M4



Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor 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 4.6 kg | 10.141 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Regulatory Compliance/Certifications

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

