

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)

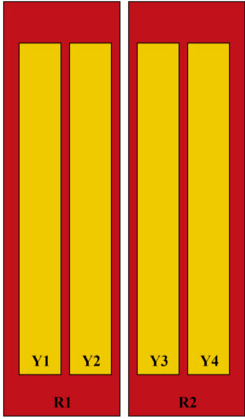
Dimensions

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

Electrical Specifications, BASTA

Frequency Band, MHz	698–806	824–896	1695–1880	1850–1990	1920–2200	2300–2360	2490–2690
Gain by all Beam Tilts, average, dBi	15.7	16.3	18.9	19.3	19.5	19.7	19.4
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.4	±0.7	±0.4	±0.4	±0.4	±0.5
Beamwidth, Horizontal Tolerance, degrees	±5.7	±3	±3.4	±3	±3.8	±5.8	±6.4
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.4	±0.2	±0.1	±0.2	±0.1	±0.2
USLS, beampeak to 20° above beampeak, dB	16	17	14	15	15	15	15
Front-to-Back Total Power at 180° ± 30°, dB	25	24	28	28	25	29	27
CPR at Boresight, dB	18	19	21	24	24	27	25
CPR at Sector, dB	10	10	8	7	9	12	10

Mechanical Specifications

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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

Agency	Classification
ISO 9001:2015	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
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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

