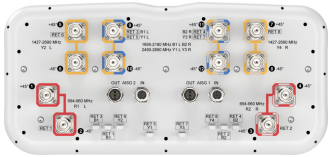


# RRZZVV-65D-R8N43D



12-port sector antenna, 4x 694–960, 4x 1427–2690 and 4x 1695–2690 MHz, 65° HPBW, 8x RET

- Independent Tilt DIPLEXED Antenna for 1800/2100 and for 2600 MHz when used with 4T4R multi-band radios
- Optimized Antenna to deliver high Pattern Efficiency for improved coverage area and capacity for a given area
- Reduces the amount of aluminum used to minimize CO2 release
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- Retractable tilt indicator rods
- Innovative aerodynamic shape optimized for reduced wind loading in every direction

## General Specifications

Antenna Type	Sector
Band	Multiband
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	0
RF Connector Quantity, mid band	8
RF Connector Quantity, low band	4
RF Connector Quantity, total	12

## Remote Electrical Tilt (RET) Information

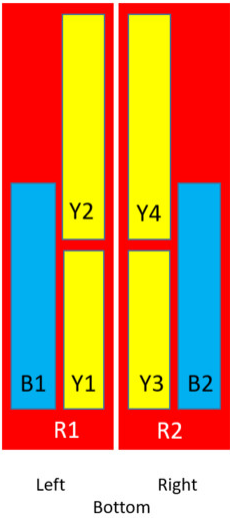
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female   8-pin DIN Male
RET Interface, quantity	2 female   2 male
Input Voltage	10–30 Vdc
Internal RET	Low band (2)   Mid band (6)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)

# RRZZVV-65D-R8N43D

## Dimensions

Width	430 mm   16.929 in
Depth	197 mm   7.756 in
Length	2769 mm   109.016 in
Net Weight, antenna only	43.6 kg   96.121 lb

## Array Layout

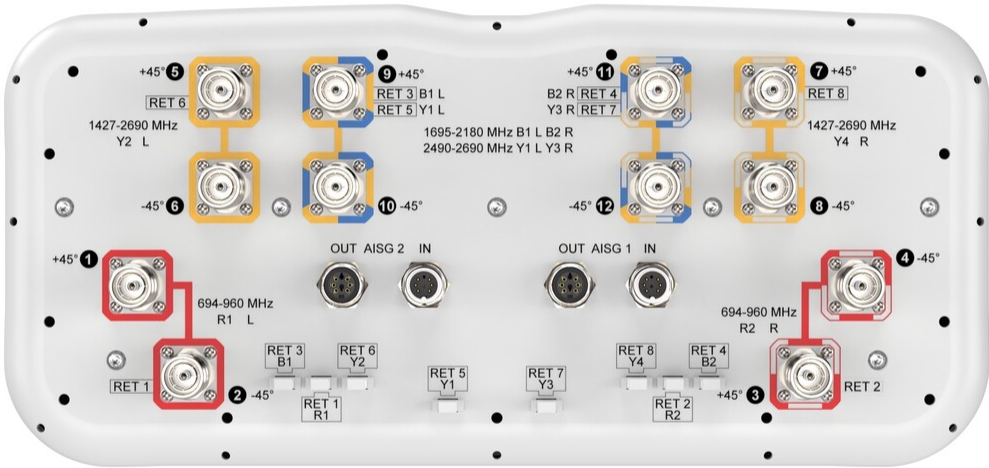


Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxxxR2
B1	1695-2180	9-10	3	CPxxxxxxxxxxxxxxxxB1
B2	1695-2180	11-12	4	CPxxxxxxxxxxxxxxxxB2
Y1	2490-2690	9-10	5	CPxxxxxxxxxxxxxxxxY1
Y2	1427-2690	5-6	6	CPxxxxxxxxxxxxxxxxY2
Y3	2490-2690	11-12	7	CPxxxxxxxxxxxxxxxxY3
Y4	1427-2690	7-8	8	CPxxxxxxxxxxxxxxxxY4

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

## Port Configuration

# RRZZVV-65D-R8N43D



## Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz   1695 – 2690 MHz   694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

## Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y2,Y4	Y2,Y4	Y2,Y4	Y2,Y4	Y2,Y4	B1,B2	B1,B2	Y1,Y3
Frequency Band, MHz	698–806	790–894	890–960	1427–1518	1695–1995	1920–2300	2300–2500	2490–2690	1695–1995	1920–2180	2490–2690
RF Port	1-4	1-4	1-4	5-8	5-8	5-8	5-8	5-8	9-12	9-12	9-12
Gain at Mid	15.5	16.1	16.3	15.1	17	17.7	18.6	18.3	17	17.6	18.2

# RRZZVV-65D-R8N43D

Tilt, dBi											
Beamwidth, Horizontal, degrees	73	61	59	70	61	57	53	58	70	68	56
Beamwidth, Vertical, degrees	7.6	6.9	6.4	8.1	6.5	5.8	5.1	4.7	5.5	5.1	5
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	16	17	17	18	18	17	15	15	15	17
Front-to-Back Ratio at 180°, dB	30	31	29	32	35	35	35	35	33	30	30
Front-to-Back Total Power at 180° ± 30°, dB	22	22	21	23	29	29	29	29	25	25	25
Isolation, Cross Polarization, dB	27	27	27	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	27	27	27	26	26	26	26	26	26	26	26
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	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	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	200	200	200	200	200

## Mechanical Specifications

Wind Loading @ Velocity, frontal	680.0 N @ 150 km/h (152.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	347.0 N @ 150 km/h (78.0 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,020.0 N @ 150 km/h (229.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	434.0 N @ 150 km/h (97.6 lbf @ 150 km/h)



# RRZZVV-65D-R8N43D

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

## Packaging and Weights

Width, packed	511 mm   20.118 in
Depth, packed	318 mm   12.52 in
Length, packed	2890 mm   113.78 in
Weight, gross	58.3 kg   128.529 lb

## 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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



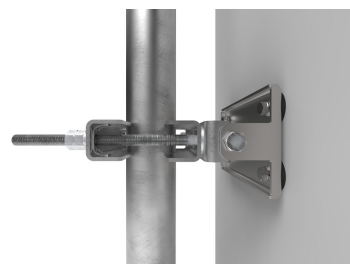
## Included Products

BSAMNT-3F	– Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.
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## \* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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# BSAMNT-3F



Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

## Product Classification

**Product Type** Fixed tilt 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** 5.6 kg | 12.346 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 5.8 kg | 12.787 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 <a href="http://www.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

# BSAMNT-3F

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