

RRZZHHTTVV65CR10V3



20-port sector antenna, 4x 694–960 , 4x 1427–2690, 4x 1695–2180, 4x 2490–2690 and 4x 1695–2690MHz, 65° HPBW, 10x RET

- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

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, mid band	16
RF Connector Quantity, low band	4
RF Connector Quantity, total	20

Remote Electrical Tilt (RET) Information

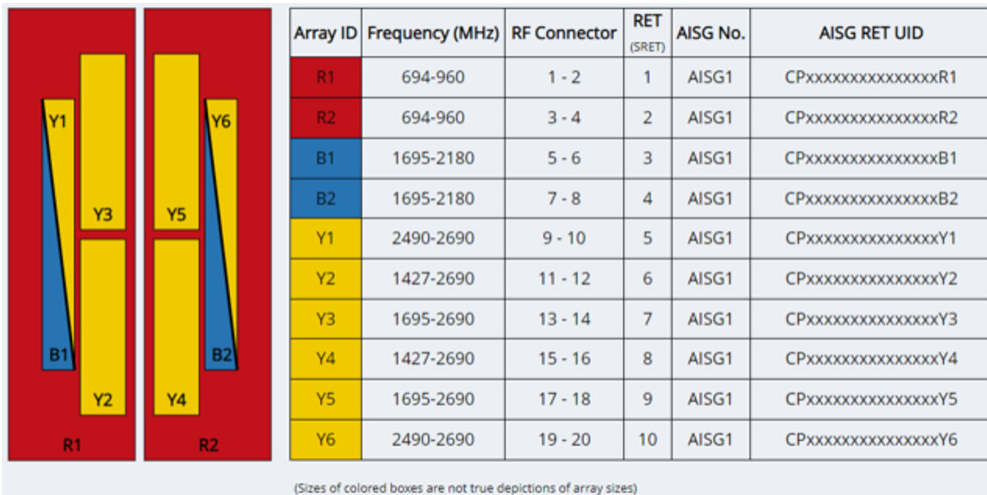
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10–30 Vdc
Internal RET	Low band (2) Mid band (8)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0

Dimensions

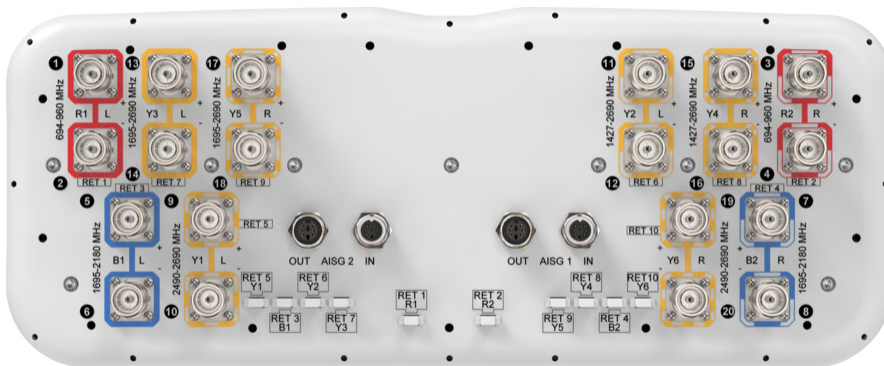
Width	498 mm 19.606 in
Depth	197 mm 7.756 in
Length	2258 mm 88.898 in
Net Weight, antenna only	41.4 kg 91.271 lb

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Array Layout



Port Configuration



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz 1695 – 2180 MHz 1695 – 2690 MHz 2490 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

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	R1,R2	R1,R2	R1,R2	B1,B2	B1,B2	Y1,Y6	Y2,Y4
Frequency Band, MHz	698–806	790–894	890–960	1695–1995	1920–2180	2490–2690	1427–1518
RF Port	1-4	1-4	1-4	5-8	5-8	9,10,19,20	11,12,15,16
Gain at Mid Tilt, dBi	15.2	15.8	15.7	17.4	18.2	18.3	14.8
Beamwidth, Horizontal, degrees	72	64	66	69	65	57	72
Beamwidth, Vertical, degrees	9.8	8.6	7.8	5.6	5	4.2	10.4
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	18	17	17	17	17	17	15
Front-to-Back Ratio at 180°, dB	31	31	31	32	30	32	33
Front-to-Back Total Power at 180° ± 30°, dB	21	21	21	27	26	27	23
Isolation, Cross Polarization, dB	26	26	26	25	25	25	25
Isolation, Inter-band, dB	26	26	26	25	25	25	25
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	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	200	250

Electrical Specifications, BASTA

	698–806	790–894	890–960	1695–1995	1920–2180	2490–2690	1427–1518
Frequency Band, MHz	698–806	790–894	890–960	1695–1995	1920–2180	2490–2690	1427–1518
Gain by all Beam Tilts, average, dBi	15.1	15.6	15.6	17.3	18	17.9	14.8
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.5	±0.7	±0.4	±0.5	±0.4
Beamwidth, Horizontal Tolerance, degrees	±7	±6	±9	±4	±6	±3	±10
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.8	±0.5	±0.4	±0.3	±0.3	±0.9
USLS, beampeak to 20° above beampeak, dB				15	15	14	14
CPR at Boresight, dB	21	21	18	20	21	19	17
CPR at Sector, dB	10	6	7	8	7	2	8

Electrical Specifications

	Y2,Y4	Y2,Y4	Y2,Y4	Y2,Y4
Frequency Band, MHz	1695–1995	1920–2300	2300–2500	2490–2690

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RF Port	11,12,15,16	11,12,15,16	11,12,15,16	11,12,15,16
Gain at Mid Tilt, dBi	16.6	17.3	18	18.2
Beamwidth, Horizontal, degrees	65	61	56	54
Beamwidth, Vertical, degrees	8.3	7.4	6.4	6
Beam Tilt, degrees	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	17	18	18	18
Front-to-Back Ratio at 180°, dB	33	33	32	32
Front-to-Back Total Power at 180° ± 30°, dB	30	29	28	28
Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25
VSWR Return loss, dB	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
Input Power per Port at 50°C, maximum, watts	250	250	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	1695–1995	1920–2300	2300–2500	2490–2690
Gain by all Beam Tilts, average, dBi	16.5	17.2	17.8	18
Gain by all Beam Tilts Tolerance, dB	±0.8	±0.5	±0.5	±0.4
Beamwidth, Horizontal Tolerance, degrees	±7	±4	±4	±3
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.7	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB	14	16	15	14
CPR at Boresight, dB	22	22	22	20
CPR at Sector, dB	8	5	5	3

Electrical Specifications

	Y3,Y5	Y3,Y5	Y3,Y5	Y3,Y5
Frequency Band, MHz	1695–1995	1920–2300	2300–2500	2490–2690
RF Port	13,14,17,18	13,14,17,18	13,14,17,18	13,14,17,18
Gain at Mid Tilt, dBi	16.5	17.4	17.8	18

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Beamwidth, Horizontal, degrees	65	58	56	57
Beamwidth, Vertical, degrees	8.6	7.6	6.6	6.3
Beam Tilt, degrees	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	16	16	19
Front-to-Back Ratio at 180°, dB	33	33	33	33
Front-to-Back Total Power at 180° ± 30°, dB	30	30	30	29
Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25
VSWR Return loss, dB	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
Input Power per Port at 50°C, maximum, watts	250	250	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	1695-1995	1920-2300	2300-2500	2490-2690
Gain by all Beam Tilts, average, dBi	16.4	17.3	17.6	17.9
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.5	±0.3	±0.4
Beamwidth, Horizontal Tolerance, degrees	±7	±5	±5	±4
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.6	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB	16	16	16	17
CPR at Boresight, dB	21	23	21	20
CPR at Sector, dB	10	8	7	5

Mechanical Specifications

Wind Loading @ Velocity, frontal	768.0 N @ 150 km/h (172.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	201.0 N @ 150 km/h (45.2 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	528.0 N @ 150 km/h (118.7 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

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Packaging and Weights

Width, packed	565 mm 22.244 in
Depth, packed	309 mm 12.165 in
Length, packed	2445 mm 96.26 in
Weight, gross	52.6 kg 115.963 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
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



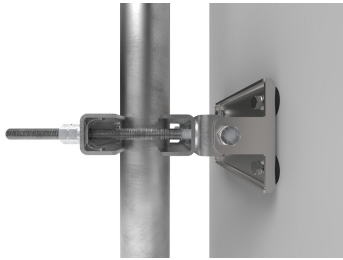
Included Products

- BSAMNT-2F – Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

BSAMNT-2F



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 3.8 kg | 8.378 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 4 kg | 8.818 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-2F

