

RRZZV4-6590D-R5V4



16-port sector antenna, 4x 694-960, 4x 1427-2690 MHz, 65° HPBW and 8x 1695-2690 MHz, 90° HPBW, 5x RET

- Antenna FDD Beamforming in 1695-2690 MHz
- Soft Split Feature available
- Antenna support 4T4R configuration by using external power divider
- V4 array uses MQ4/5 cluster connectors

General Specifications

Antenna Type	Sector and beamforming
Band	Multiband
Calibration Connector Interface	MQ5
Calibration Connector Quantity	1
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 MQ4 MQ5
RF Connector Location	Bottom
RF Connector Quantity, high band	0
RF Connector Quantity, mid band	12
RF Connector Quantity, low band	4
RF Connector Quantity, total	16

Remote Electrical Tilt (RET) Information

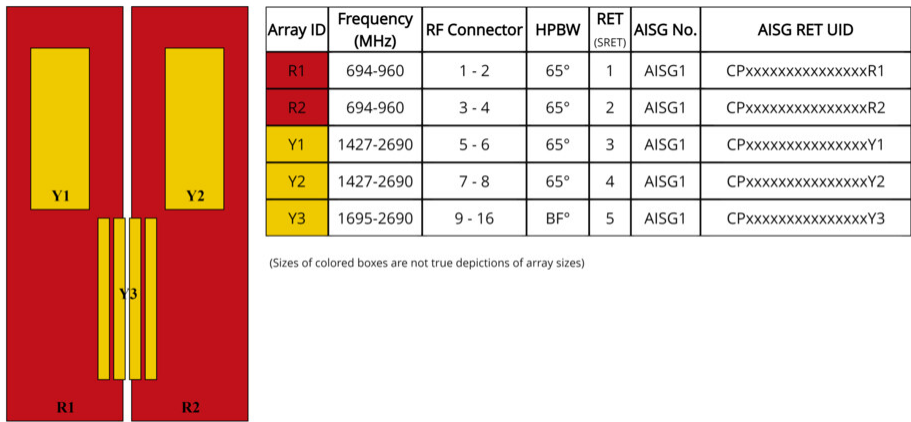
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male
Input Voltage	10–30 Vdc
Internal RET	Low band (2) Mid band (3)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0

Dimensions

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Width	498 mm 19.606 in
Depth	197 mm 7.756 in
Length	2688 mm 105.827 in
Net Weight, antenna only	45.2 kg 99.649 lb

Array Layout



Port Configuration

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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	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	698–806	790–894	890–960	1427–1518	1695–1995	1920–2300	2300–2500	2490–2690
RF Port	1-4	1-4	1-4	5-8	5-8	5-8	5-8	5-8
Gain at Mid Tilt, dBi	15.7	16	16.1	14.7	16.9	17.4	18.2	18.2
Beamwidth, Horizontal,	65	59	61	71	68	66	60	62

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degrees								
Beamwidth, Vertical, degrees	8.7	7.9	7.1	7.5	5.7	5.3	4.7	4.3
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	20	19	17	15	16	17	18	20
Front-to-Back Ratio at 180°, dB	29	31	29	30	29	28	29	33
CPR at Boresight, dB	26	23	18	17	22	19	20	17
Isolation, Cross Polarization, dB	28	28	28	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	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	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-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

Electrical Specifications

	Y3	Y3
Frequency Band, MHz	1695-2200	2490-2690
RF Port	9-16	9-16
Gain at Mid Tilt, dBi	15.7	16.8
Beamwidth, Horizontal, degrees	101	77
Beamwidth, Vertical, degrees	5.3	4
Beam Tilt, degrees	2-12	2-12
USLS (First Lobe), dB	18	22
Front-to-Back Ratio at 180°, dB	32	31
Coupling level, Amp, Antenna port to Cal port, dB	-26	-26
Coupling level, max Amp Δ, Antenna port to Cal port, dB	±2	±2
Coupler, max Amp Δ, Antenna port to Cal port, dB	0.9	0.9
Coupler, max Phase Δ, Antenna port to Cal port, degrees	7	7
CPR at Boresight, dB	16	17
Isolation, Cross Polarization, dB	25	25

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Isolation, Inter-band, dB	22	22
Isolation, Co-polarization, dB	20	20
VSWR Return loss, dB	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-140	-140
Input Power per Port at 50°C, maximum, watts	150	150

Electrical Specifications, Service Beam

Frequency Band, MHz	1695–2200	2490–2690
Steered 30° Gain, dBi	20.4	21
Steered 30° Beamwidth, Horizontal, degrees	31	22
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	30	28
Steered 30° Horizontal Sidelobe, dB	11	9

Electrical Specifications, Soft Split

Frequency Band, MHz	1695–2200
Gain, dBi	20
Beamwidth, Horizontal, degrees	37
Front-to-Back Total Power at 180° ± 30°, dB	30
Horizontal Sidelobe, dB	20

Electrical Specifications

	Y3	Y3
Frequency Band, MHz	1695–2200	2490–2690
RF Port	9&11, 10&12, 13&15, 14&16	9&11, 10&12, 13&15, 14&16
Gain at Mid Tilt, dBi	17.3	18.4
Beamwidth, Horizontal, degrees	65	57
Beamwidth, Vertical, degrees	5.2	3.9
Beam Tilt, degrees	2–12	2–12
USLS (First Lobe), dB	20	22

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Front-to-Back Ratio at 180°, dB	35	36
CPR at Boresight, dB	22	20

Mechanical Specifications

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

Width, packed	565 mm 22.244 in
Depth, packed	318 mm 12.52 in
Length, packed	2809 mm 110.591 in
Weight, gross	65 kg 143.3 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 www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



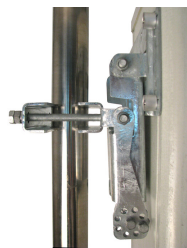
Included Products

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

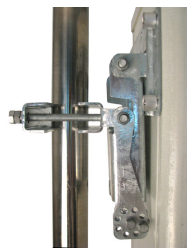
Packaging quantity 1

Regulatory Compliance/Certifications

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REACH-SVHC	Compliant as per SVHC revision on www.andrew.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
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REACH-SVHC	Compliant as per SVHC revision on www.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

