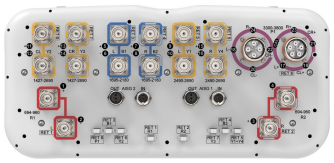
RRZZHHTTS4-65BR8V2



24-port sector antenna, 4x 694-960, 4x 1427-2690, 4x 1695-2180, 4x 2490-2690 and 8x 3300-3800 MHz, 65° HPBW, 8x RET

- Antenna includes 2x Single Column X-Pol Arrays for 694-960MHz and 2x Single Column X-Pol Arrays for 1427-2690MHz, suitable for 4x MIMO applications
- Includes 2x Single Column X-Pol Diplexed Arrays providing 4-Ports x 1695-2180MHz and 4 Ports x 2490-2690MHz, suitable for 4x MIMO applications
- Retractable tilt indicator rods
- Excellent wind loading characteristics
- MQ4/MQ5 cluster connector for 3.3-3.8GHz, equipped with calibration port
- Includes eight Internal RET's. All 2490-2690MHz (Y1&Y4) ports share common RET

General Specifications

Antenna Type	Sector- and beamforming
Band	Multiband
Calibration Connector Interface	MQ5
Calibration Connector Quantity	1
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
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female | MQ4 | MQ5
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, mid band	12
RF Connector Quantity, low band	4
RF Connector Quantity, total	24

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

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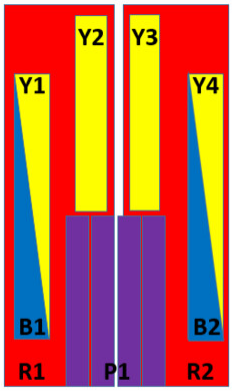
Input Voltage	10–30 Vdc
Internal Bias Tee	Cal Port
Internal RET	High band (1) | Low band (2) | Mid band (5)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0

Dimensions

Width	430 mm | 16.929 in
Depth	197 mm | 7.756 in
Length	2100 mm | 82.677 in
Net Weight, antenna only	41.2 kg | 90.83 lb
TDD Column Spacing	42 mm | 1.654 in

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxxR2
B1	1695-2180	5-6	3	CPxxxxxxxxxxxxxxxB1
B2	1695-2180	7-8	4	CPxxxxxxxxxxxxxxxB2
Y1	2490-2690	9-10	5	CPxxxxxxxxxxxxxxxY1
Y4	2490-2690	15-16		
Y2	1427-2690	11-12	6	CPxxxxxxxxxxxxxxxY2
Y3	1427-2690	13-14	7	CPxxxxxxxxxxxxxxxY3
P1	3300-3800	17-24	8	CPxxxxxxxxxxxxxxxP1

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

Port Configuration

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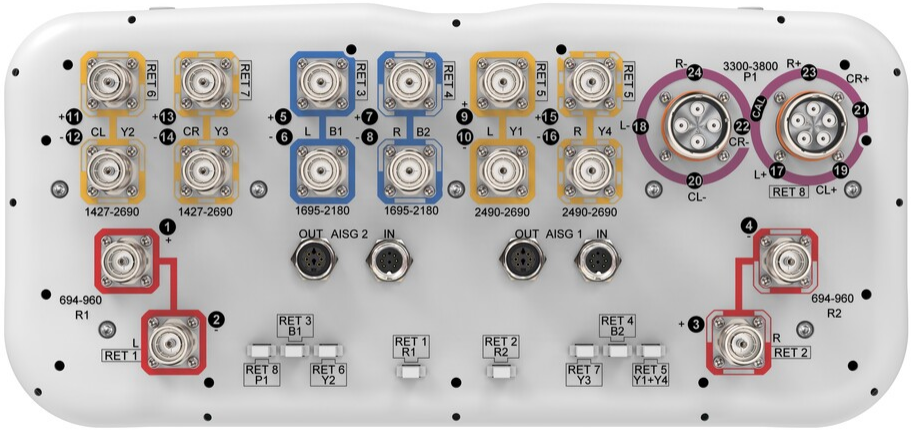

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz | 1695 – 2180 MHz | 2490 – 2690 MHz | 3300 – 3800 MHz | 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y2,Y3	Y2,Y3	Y2,Y3	B1,B2	Y1,Y4	P1
Frequency Band, MHz	**694–790**	**790–890**	**890–960**	**1427–1518**	**1695–2200**	**2300–2690**	**1695–2180**	**2490–2690**	**3300–3800**
RF Port	1,2,3,4	1,2,3,4	1,2,3,4	11,12,13,14	11,12,13,14	11,12,13,14	5,6,7,8	9,10,15,16	17,18,19,20,21,22,23,24
Gain, dBi	14.1	15	15	14.1	15.9	16.6	17.1	17.7	15.8
Beamwidth, Horizontal, degrees	70	60	59	69	63	61	69	64	82
Beamwidth, Vertical, degrees	10.6	9.5	8.7	9.9	7.6	6.2	5.2	4.2	6.2
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	20	19	18	13	18	20	19	21	16
Front-to-Back	31	31	30	34	34	31	32	32	28

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Ratio at 180°, dB									
Coupling level, Amp, Antenna port to Cal port, dB									26
Coupling level, max Amp Δ, Antenna port to Cal port, dB									±2
Coupler, max Amp Δ, Antenna port to Cal port, dB									0.9
Coupler, max Phase Δ, Antenna port to Cal port, degrees									7
Isolation, Cross Polarization, dB	27	27	27	26	26	26	27	27	25
Isolation, Inter-band, dB	27	27	27	26	26	26	26	27	19
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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153	-153	-130
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	200	250	200	75

Electrical Specifications, BASTA

Frequency Band, MHz	**694–790**	**790–890**	**890–960**	**1427–1518**	**1695–2200**	**2300–2690**	**1695–2180**	**2490–2690**	**3300–3800**
Gain by all Beam Tilts, average, dBi	13.6	14.6	14.6	13.7	15.3	16.2	16.6	17.4	15.2
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.5	±0.4	±0.5	±1	±0.5	±0.7	±0.3	±0.7
Beamwidth, Horizontal Tolerance, degrees	±8	±5	±5	±7	±8	±4	±6	±3	±22
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.7	±0.4	±0.7	±0.9	±0.5	±0.4	±0.2	±0.6
USLS, beampeak to 20° above beampeak, dB	19	17	18	13	15	14	16	15	13
Front-to-Back	22	24	21	22	28	26	26	24	21

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Total Power at 180° ± 30°, dB									
CPR at Boresight, dB	22	23	23	16	18	17	18	23	16
CPR at Sector, dB	10	10	8	4	4	2	9	6	8

Electrical Specifications, Broadcast 65°

Frequency Band, MHz	**3300–3800**
Gain, dBi	16.5
Beamwidth, Horizontal, degrees	59
Beamwidth, Vertical, degrees	6.1
Front-to-Back Total Power at 180° ± 30°, dB	23
USLS (First Lobe), dB	17

Electrical Specifications, Service Beam

Frequency Band, MHz	**3300–3800**
Steered 0° Gain, dBi	20.7
Steered 0° Beamwidth, Horizontal, degrees	24
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	29
Steered 0° Horizontal Sidelobe, dB	15
Steered 30° Gain, dBi	19.6
Steered 30° Beamwidth, Horizontal, degrees	28
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	26

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Electrical Specifications, Soft Split

Frequency Band, MHz	**3300–3800**
Gain, dBi	19.6
Beamwidth, Horizontal, degrees	31
Horizontal Sidelobe, dB	16

Mechanical Specifications

Wind Loading @ Velocity, frontal	494.0 N @ 150 km/h (111.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	266.0 N @ 150 km/h (59.8 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	780.0 N @ 150 km/h (175.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	530 mm | 20.866 in
Depth, packed	349 mm | 13.74 in
Length, packed	2272 mm | 89.449 in
Weight, gross	53.5 kg | 117.947 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-3	–	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.

* Footnotes

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Performance Note	Severe environmental conditions may degrade optimum performance

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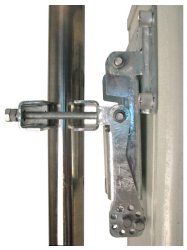
BSAMNT-3



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	6.2 kg | 13.669 lb

Material Specifications

Material Type	Galvanized steel

Packaging and Weights

Included	Brackets | Hardware
Packaging quantity	1
Weight, gross	6.4 kg | 14.11 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

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BSAMNT-3

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