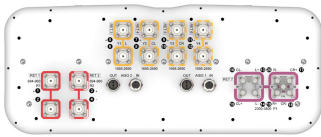


RRV4Q4-65D-R7



20-port sector antenna, 4 x 694-960 MHz (R1-R2), and 8 x 1695-2690 MHz (Y1-Y4) 65° HPBW, 8 x 2300-3800 MHz (P1), 90° HPBW, 7 x RET

- Includes 1x 4-Column Array for 2300-3800MHz and calibration port. Column spacing optimized to support Soft Split Beamforming
- Q4 array uses M-LOC cluster connectors
- Seven internal RETs control the antenna arrays
- New aerodynamic endcaps for wind load optimization

General Specifications

Antenna Type	Sector and beamforming
Band	Multiband
Calibration Connector Interface	M-LOC
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
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female M-LOC
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, mid band	8
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	High band (1) Low band (2) Mid band (4)
Power Consumption, active state, maximum	8 W

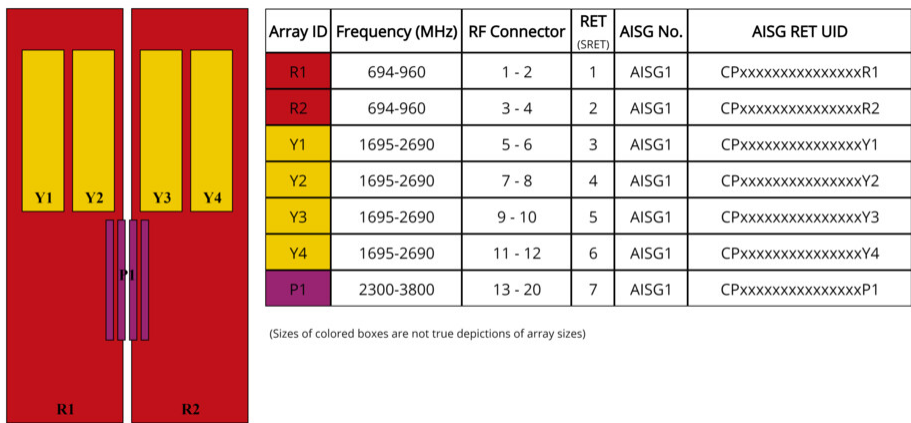
RRV4Q4-65D-R7

Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0

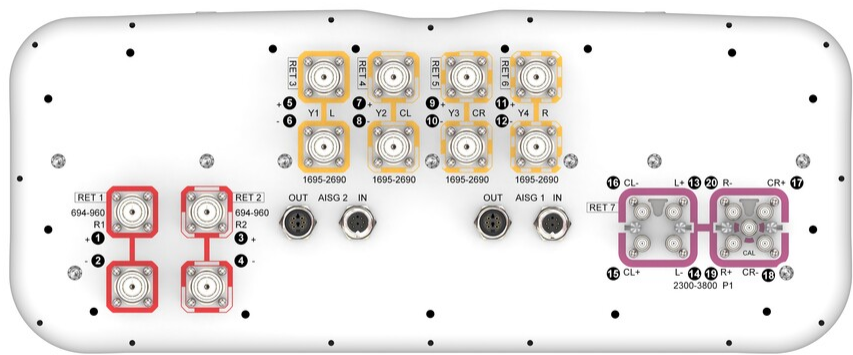
Dimensions

Width	498 mm 19.606 in
Depth	197 mm 7.756 in
Length	2688 mm 105.827 in
Net Weight, antenna only	44.5 kg 98.106 lb
TDD Column Spacing	58 mm 2.283 in

Array Layout



Port Configuration



RRV4Q4-65D-R7

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 2300 – 3800 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

	R1-R2	R1-R2	R1-R2	Y1-Y4	Y1-Y4	Y1-Y4	P1	P1
Frequency Band, MHz	694–790	790–890	890–960	1695–1920	1920–2200	2300–2690	2300–2690	3400–3800
RF Port	1-4	1-4	1-4	5-12	5-12	5-12	13-20	13-20
Gain, dBi	15.8	16.2	16.4	15.8	17	17.6	15.9	16.6
Gain at Mid Tilt, dBi	15.6	16	16.3	15.6	16.7	17.4	15.2	16
Beamwidth, Horizontal, degrees	71	64	63	70	62	59	88	64
Beamwidth, Vertical, degrees	8.9	8	7.3	7.4	6.5	5.4	6	5.1
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	16	16	16	16	16	16	14	14
Front-to-Back Ratio at 180°, dB	30	30	30	30	30	30	30	28
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	20	20	18	19	21	20	16	16
Isolation, Cross Polarization, dB	28	28	28	25	25	25	23	23
Isolation, Inter-band, dB	28	28	28	25	25	25	25	25
Isolation, Co-polarization, dB							20	20
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	-150	-150	-150	-150	-150	-150	-140	-140
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	200	75	75

RRV4Q4-65D-R7

Electrical Specifications, Broadcast 65°

Frequency Band, MHz	2300–2690	3400–3800
Gain, dBi	17.7	17.4
Beamwidth, Horizontal, degrees	65	65
Beamwidth, Vertical, degrees	5.9	5.1
Front-to-Back Total Power at 180° ± 30°, dB	28	25
USLS (First Lobe), dB	14	15

Electrical Specifications, Envelope Pattern

Frequency Band, MHz	2300–2690	3400–3800
Gain, dBi	20.4	21.8
Beamwidth, Horizontal at 10 dB, degrees	125	120
Beamwidth, Vertical at 3 dB, degrees	5.9	5.1
Front-to-Back Total Power at 180° ± 30°, dB	28	27
USLS (First Lobe), dB	15	15

Electrical Specifications, Service Beam

Frequency Band, MHz	2300–2690	3400–3800
Steered 0° Gain, dBi	20.5	21.8
Steered 0° Beamwidth, Horizontal, degrees	24	18
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	30	29
Steered 0° Horizontal Sidelobe, dB	12	13
Steered 30° Gain, dBi	20	19.9
Steered 30° Beamwidth, Horizontal, degrees	28	22
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	30	25

Electrical Specifications, Soft Split

Frequency Band, MHz	2300–2690
Gain, dBi	19.7

RRV4Q4-65D-R7

Beamwidth, Horizontal, degrees	30
Front-to-Back Total Power at 180° ± 30°, dB	30
Horizontal Sidelobe, dB	18

Mechanical Specifications

Wind Loading @ Velocity, frontal	944.0 N @ 150 km/h (212.2 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	292.0 N @ 150 km/h (65.6 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,130.0 N @ 150 km/h (254.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	650.0 N @ 150 km/h (146.1 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	565 mm 22.244 in
Depth, packed	309 mm 12.165 in
Length, packed	2935 mm 115.551 in
Weight, gross	65 kg 143.3 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on www.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



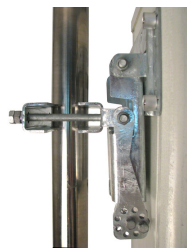
Included Products

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.
BSAMNT-M	– 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-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

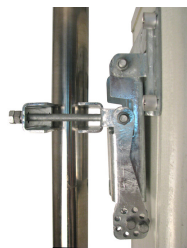
Weight, gross 6.4 kg | 14.11 lb

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.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



BSAMNT-M



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 4.5 kg | 9.921 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.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

