

4SS-15B-R4B



16-Port Multibeam antenna, 16x 3300-4000 MHz, 4x 15° HPBW, 4x RET

- Ultra-high capacity antenna provides increased throughput for special events or very high traffic locations
- Provides higher capacity than single radio massive MIMO solution
- Multibeam antenna with 4x HB beam
- All beams support 4T4R service or 2T2R service
- Novel design produces stable beam peak positions

General Specifications

Antenna Type	Multi-beam
Band	Single band
Color	Light Gray (RAL 7035)
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	16
RF Connector Quantity, total	16

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	AISG1 8-pin DIN Female AISG1 8-pin DIN Male
RET Interface, quantity	1 female 1 male
Internal Bias Tee	Port 1
Internal RET	High band (4)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0

Dimensions

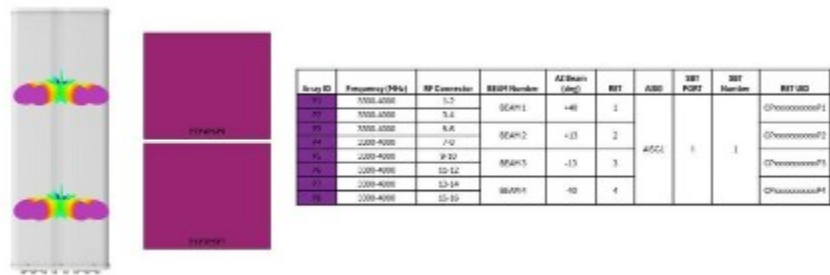
Width	430 mm 16.929 in
Depth	197 mm 7.756 in

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Length1848 mm | 72.756 in

Net Weight, without mounting kit39.8 kg | 87.744 lb

Array Layout



Port Configuration



Electrical Specifications

Impedance50 ohm

Operating Frequency Band3300 – 4000 MHz

Polarization±45°

Total Input Power, maximum1,280 W

Electrical Specifications

P1-P8

P1-P8

P1-P8

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Frequency Band, MHz	3300–3400	3400–3700	3700–4000
RF Port	1-16	1-16	1-16
Gain, Maximum, dBi	21.8	22.4	22.5
Gain, dBi	21	21.5	21.6
Beam Centers, Horizontal, degrees	±13 ±40	±13 ±40	±13 ±40
Beamwidth, Horizontal, degrees	17	16	15
Beamwidth, Vertical, degrees	6.6	6.3	5.9
Beam Tilt, degrees	0–10	0–10	0–10
USLS (First Lobe), dB	15	16	16
Front-to-Back Ratio at 180°, dB	30	30	28
Isolation, Cross Polarization, dB	25	25	25
Isolation, Beam to Beam, dB	17	17	17
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-145	-145	-145
Input Power per Port, maximum, watts	80	80	80

Mechanical Specifications

Wind Loading @ Velocity, frontal	432.0 N @ 150 km/h (97.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	219.0 N @ 150 km/h (49.2 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	650.0 N @ 150 km/h (146.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	276.0 N @ 150 km/h (62.0 lbf @ 150 km/h)
Wind Speed, maximum	241.4 km/h (150 mph)

Packaging and Weights

Width, packed	530 mm 20.866 in
Depth, packed	349 mm 13.74 in
Length, packed	2020 mm 79.528 in
Weight, gross	52.7 kg 116.183 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.andrew.com/ProductCompliance
ROHS	Compliant

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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. Mount Kit Weight is 6.2kg | 13.7 lb.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance