

16-port multibeam antenna, 8x 694–960 MHz, 2x 2-beam 33° HPBW and 8x 1695–2690 MHz, 2x 2-beam 33° HPBW, 4x RET

- Provides 4T4R capability in low and mid bands
- Twin beam patterns are optimized for minimum beam crossover providing for improved LTE data throughput
- GREEN and High Capacity Antenna Solution
- Innovative aerodynamic shape optimized for reduced wind loading in every direction
- Enhances network capacity through six sectors on high band while maintaining low band coverage layer through three sectors with only three antenna faces
- "Green" packaging of reduced size and gross weight that uses less material and reduces shipping pollution
- Optional Mounting Kits with mechanical tilt capacity need to be ordered separately

### General Specifications

BandMultibandColorLight Gray (RAL 7035)Grounding TypeRF connector inner conductor and body grounded to reflector and mounting bracketPerformance NoteOutdoor usageDefense NoteEiler All March Mar
Grounding TypeRF connector inner conductor and body grounded to reflector and mounting bracketPerformance NoteOutdoor usage
Performance Note     Outdoor usage
Radome MaterialFiberglass, UV resistant
Radiator Material     Low loss circuit board
Reflector Material Aluminum
<b>RF Connector Interface</b> 4.3-10 Female
RF Connector Location Bottom
RF Connector Quantity, mid band 8
RF Connector Quantity, low band 8
RF Connector Quantity, total 16

### Remote Electrical Tilt (RET) Information

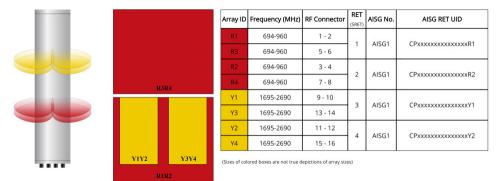
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female   8-pin DIN Male
Input Voltage	10-30 Vdc
Internal RET	Low band (2)   Mid band (2)

Page 1 of 7



Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Multi-RET)
Dimensions	
Width	640 mm   25.197 in
Depth	235 mm   9.252 in
Length	2235 mm   87.992 in
Net Weight, antenna only	63.5 kg   139.993 lb

### Array Layout



## Port Configuration





## **Electrical Specifications**

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz   694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,500 W @ 50 °C

## **Electrical Specifications**

	R1-R4	R1-R4	R1-R4	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
Frequency Band, MHz	698-806	790-896	890-960	1710-1990	1920-2300	2300-2500	2490-2690
RF Port	1-8	1-8	1-8	9-16	9-16	9-16	9-16
Gain at Mid Tilt, dBi	14.1	15.2	15.7	17.4	18.4	18.7	18.4
Beamwidth, Horizontal, degrees	40	37	34	34	31	28	25
Beamwidth, Vertical, degrees	19.4	17.6	16.2	7.8	7.2	6.3	5.9
Beam Tilt, degrees	2-16	2-16	2-16	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	17	16	15	16	17	14
Front-to-Back Ratio at 180°, dB	28	33	32	33	34	32	30
Isolation, Cross Polarization,	25	25	25	25	25	25	25

Page 3 of 7



#### dB

Isolation, Inter-band, dB	25	25	25	25	25	25	25
Isolation, Beam to Beam, dB	17	17	17	17	17	17	17
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	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	200	200	200	200	200	150	150

## Electrical Specifications, BASTA

Frequency Band, MHz	698-806	790-896	890-960	1710-1990	1920-2300	2300-2500	2490-2690
Gain by all Beam Tilts, average, dBi	14.1	15.2	15.6	17.3	18.2	18.5	18.2
Gain by all Beam Tilts Tolerance, dB	±0.8	±0.9	±0.8	±1.1	±0.7	±0.9	±0.8
Beamwidth, Horizontal Tolerance, degrees	±3	±2	±3	±3	±2	±2	±3
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.2	±0.5	±0.2	±0.2	±0.2	±0.2
USLS, beampeak to 20° above beampeak, dB	23	20	19	12	15	15	14
Front-to-Back Total Power at 180° ± 30°, dB	22	26	26	27	28	27	25
CPR at Boresight, dB	17	17	18	17	19	20	16
CPR at 10 dB Horizontal Beamwidth, dB	5	8	9	11	12	9	6

## Mechanical Specifications

895.0 N @ 150 km/h (201.2 lbf @ 150 km/h)
262.0 N @ 150 km/h (58.9 lbf @ 150 km/h)
1,140.0 N @ 150 km/h (256.3 lbf @ 150 km/h)
558.0 N @ 150 km/h (125.4 lbf @ 150 km/h)
241 km/h (150 mph)

### Packaging and Weights

Width, packed	744 mm   29.291 in
Depth, packed	346 mm   13.622 in
Length, packed	2364 mm   93.071 in
Weight, gross	79.5 kg   175.267 lb

Page 4 of 7



## 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
9001:2015	
Included Product	S
BSAMNT-3F	<ul> <li>Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.</li> </ul>
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### \* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

Page 5 of 7



# BSAMNT-3F



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	5.6 kg   12.346 lb
Material Specifications	
Material Type	Galvanized steel

### Packaging and Weights

Included	Brackets   Hardware
Packaging quantity	1
Weight, gross	5.8 kg   12.787 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

Page 6 of 7







Page 7 of 7

