

12-port sector antenna, 4x 698–896 and 8x 1695–2360 MHz, 45° HPBW, 6x RET

- Array configuration provides capability for 4T4R (4x MIMO) on Low band and Dual 4T4R (4x MIMO) on High band
- Optimized SPR performance across all operating bands
- Excellent wind loading characteristics
- Features broadband Low Band (698-896 MHz) and High Band (1695-2360 MHz) arrays for 4T4R (4X MIMO) capability for Band 14, AWS, PCS and WCS applications
- Independent tilt for all arrays

General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and mounting

bracket

Performance Note Outdoor usage

Radome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 8
RF Connector Quantity, low band 4
RF Connector Quantity, total 12

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 High band (4) | Low band (2)

Power Consumption, active state, maximum 8 W

COMMSCOPE®

Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0

Dimensions

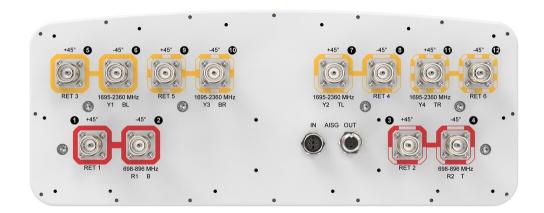
 Width
 457 mm | 17.992 in

 Depth
 178 mm | 7.008 in

 Length
 1399 mm | 55.079 in

 Net Weight, antenna only
 27.2 kg | 59.966 lb

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 698 – 896 MHz

Polarization ±45°

Total Input Power, maximum $900~\mathrm{W} \ @ \ 50~\mathrm{^{\circ}C}$

Electrical Specifications

R1,R2 R1,R2 Y1-Y4 Y1-Y4 Y1-Y4 Y1-Y4

Frequency Band, MHz 698-806 806-896 1695-1880 1850-1990 1920-2180 2300-2360

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RF Port	1-4	1-4	5-12	5-12	5-12	5-12
Gain, dBi	12.6	13.5	15.1	15.8	16.6	16.9
Beamwidth, Horizontal, degrees	49	44	45	42	40	36
Beamwidth, Vertical, degrees	36	30.4	15.2	13.7	12.9	11.5
Beam Tilt, degrees	2-18	2-18	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	17	17	15	17	17	18
Front-to-Back Ratio at 180°, dB	31	35	32	33	34	33
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	200

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	12.2	13.3	14.6	15.5	16.1	16.6
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.6	±0.8	±0.5	±0.8	±0.7
Beamwidth, Horizontal Tolerance, degrees	±3	±3	±4	±3	±3	±2
Beamwidth, Vertical Tolerance, degrees	±2.7	±2.8	±1.4	±1	±1	±0.7
Front-to-Back Total Power at 180° ± 30°, dB	23	24	25	27	28	27
CPR at 10 dB Horizontal Beamwidth, dB	9	9	6	8	9	12

Mechanical Specifications

Wind Loading @ Velocity, frontal	788.0 N @ 150 km/h (177.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	157.0 N @ 150 km/h (35.3 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	788.0 N @ 150 km/h (177.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	692.0 N @ 150 km/h (155.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

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Packaging and Weights

 Width, packed
 563 mm | 22.165 in

 Depth, packed
 355 mm | 13.976 in

 Length, packed
 1572 mm | 61.89 in

 Weight, gross
 36.4 kg | 80.248 lb

Regulatory Compliance/Certifications

Agency

Classification

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system



Included Products

BSAMNT-2F – Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

