

MB12P4L8M6533B6-V2



12-port sector/multibeam antenna, 4x 698–960 MHz 65° HPBW and 8x 1710–2690 MHz 33°HPBW, 6x RET

- Antenna with tilt scale indicators and integrated pluggable RET
- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Enhances network capacity through six sectors on high band while maintaining low band coverage layer through three sectors with only three antenna faces

General Specifications

| | |
|---------------------------------|--|
| Antenna Type | Multibeam |
| Band | Multiband |
| 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 | 7-16 DIN Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, mid band | 8 |
| RF Connector Quantity, low band | 4 |
| RF Connector Quantity, total | 12 |

Remote Electrical Tilt (RET) Information

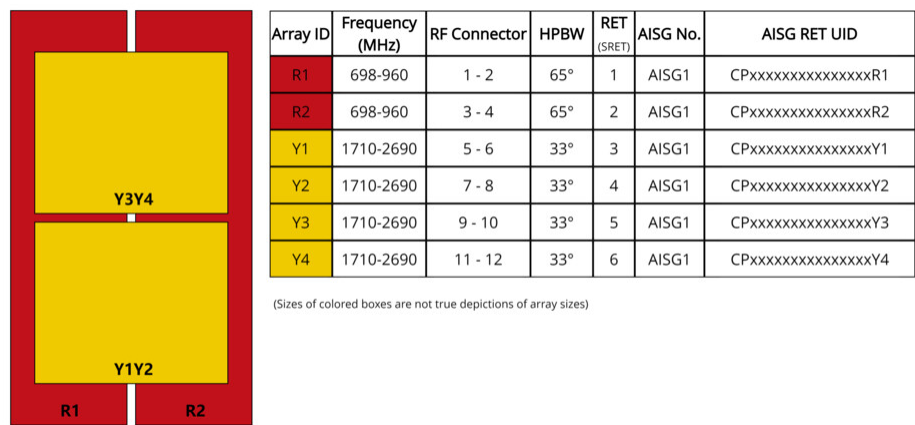
| | |
|--|-----------------------------------|
| RET Hardware | CommRET v2 |
| RET Interface | 8-pin DIN Female 8-pin DIN Male |
| RET Interface, quantity | 1 female 1 male |
| Input Voltage | 10–30 Vdc |
| Internal RET | Low band (2) Mid band (4) |
| Power Consumption, active state, maximum | 10 W |
| Power Consumption, idle state, maximum | 2 W |
| Protocol | 3GPP/AISG 2.0 (Single RET) |

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Dimensions

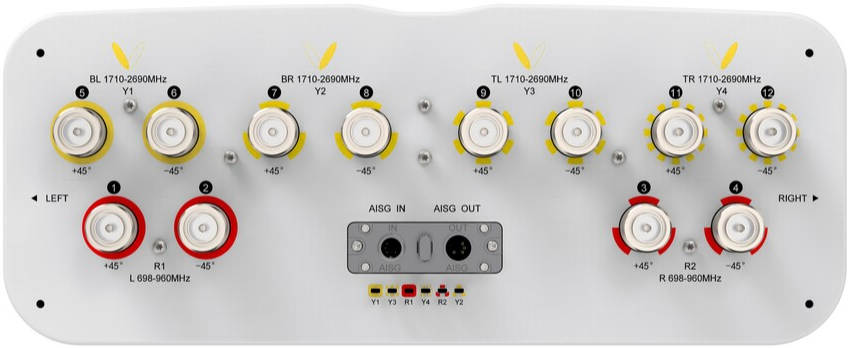
| | |
|--------------------------|---------------------|
| Width | 499 mm 19.646 in |
| Depth | 199 mm 7.835 in |
| Length | 2090 mm 82.284 in |
| Net Weight, antenna only | 28.3 kg 62.391 lb |

Array Layout



Port Configuration

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Electrical Specifications

| | |
|----------------------------|---------------------------------|
| Impedance | 50 ohm |
| Operating Frequency Band | 1710 – 2690 MHz 698 – 960 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 1,000 W |

Electrical Specifications

| | R1,R2 | R1,R2 | R1,R2 | Y1-Y4 | Y1-Y4 | Y1-Y4 | Y1-Y4 | Y1-Y4 |
|-----------------------------------|---------|---------|---------|-----------|-----------|-----------|-----------|-----------|
| Frequency Band, MHz | 698–806 | 790–894 | 880–960 | 1710–1880 | 1850–1990 | 1920–2170 | 2300–2500 | 2500–2690 |
| RF Port | 1-4 | 1-4 | 1-4 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 |
| Gain, dBi | 15 | 15.6 | 16.1 | 17.7 | 18.5 | 18.9 | 18.2 | 18.7 |
| Beam Centers, Horizontal, degrees | | | | ±27 | ±27 | ±27 | ±27 | ±27 |
| Beamwidth, Horizontal, degrees | 67 | 60 | 55 | 34 | 31 | 29 | 27 | 25 |
| Beamwidth, Vertical, degrees | 10.9 | 9.6 | 9 | 9.8 | 9.3 | 9 | 8 | 7.5 |
| Beam Tilt, degrees | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 |
| USLS (First Lobe), dB | 15 | 16 | 17 | 16 | 18 | 19 | 22 | 22 |

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| | | | | | | | | |
|--|------------|------------|------------|------------|------------|------------|------------|------------|
| Front-to-Back Ratio, Copolarization 180° ± 30°, dB | 27 | 25 | 25 | 31 | 33 | 35 | 31 | 30 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Isolation, Inter-band, dB | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Isolation, Beam to Beam, dB | | | | 15 | 15 | 15 | 15 | 15 |
| 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 | -150 | -150 |
| Input Power per Port, maximum, watts | 300 | 300 | 300 | 200 | 200 | 200 | 200 | 200 |

Mechanical Specifications

| | |
|----------------------------------|---|
| Wind Loading @ Velocity, frontal | 568.0 N @ 150 km/h (127.7 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 273.0 N @ 150 km/h (61.4 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 657.0 N @ 150 km/h (147.7 lbf @ 150 km/h) |
| Wind Speed, maximum | 200 km/h (124 mph) |

Packaging and Weights

| | |
|----------------|---------------------|
| Width, packed | 593 mm 23.346 in |
| Depth, packed | 317 mm 12.48 in |
| Length, packed | 2290 mm 90.158 in |
| Weight, gross | 39.8 kg 87.744 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| UK-ROHS | Compliant |

Included Products

| | | |
|---------------|---|--|
| BSAMNT-B95-04 | – | 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

| | |
|------------------|---|
| Performance Note | Severe environmental conditions may degrade optimum performance |
|------------------|---|

BSAMNT-B95-04



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 4.5 kg | 9.921 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 2

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CE | Compliant with the relevant CE product directives |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |

