# 4P-4M-A2

4-port sector antenna, 4x 1695–2690 MHz, 65° HPBW.

- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- With tilt indicators and integrated pluggable RET
- Wind Loading: Frontal / Lateral / Rear – 346 / 94 / 436 N @ 150km/h
- Conforms to RoHS 2011/65/EU

## General Specifications

| | |
|---|---|
| **Antenna Type** | Sector |
| **Band** | Single band |
| **Color** | Light gray |
| **Grounding Type** | RF connector body grounded to reflector and mounting bracket |
| **Performance Note** | Outdoor usage |
| **Radome Material** | PVC, UV resistant |
| **Radiator Material** | Aluminum |
| **Reflector Material** | Aluminum |
| **RF Connector Interface** | 4.3-10 Female |
| **RF Connector Location** | Bottom |
| **RF Connector Quantity, high band** | 4 |
| **RF Connector Quantity, total** | 4 |

## Remote Electrical Tilt (RET) Information, General

| | |
|---|---|
| **RET Hardware** | RET-PMOD-A20-2 |
| **RET Interface** | 2x 8 pin connector as per IEC 60130-9 Daisy chain in: Male / Daisy chain out: Female Pin3: RS485A(AISG_B), Pin5: RS485B(AISG_A), Pin6: DC 10~30V, Pin7: DC_ Return |

## Dimensions

| | |
|---|---|
| **Width** | 307 mm \| 12.087 in |
| **Length** | 1377 mm \| 54.213 in |
| **Depth** | 118 mm \| 4.646 in |

## Array Layout



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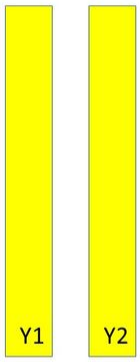


| Array | Freq (MHz) | Conns | RET (SRET) | AISG RET UID |
|---|---|---|---|---|
| Y1 | 1695-2690 | 1-2 | 1 | CPxxxxxxxxxxxxxxxY1 |
| Y2 | 1695-2690 | 3-4 | 2 | CPxxxxxxxxxxxxxxxY2 |

(Sizes of colored boxes are not true depictions of array sizes)

## Port Configuration



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## Electrical Specifications

| | |
|---|---|
| **Impedance** | 50 ohm |
| **Operating Frequency Band** | 1695 – 2690 MHz |
| **Polarization** | ±45° |
| **Total Input Power, maximum** | 500 W |

## Remote Electrical Tilt (RET) Information, Electrical

| | |
|---|---|
| **Protocol** | 3GPP/AISG 2.0 (Single RET) |
| **Power Consumption, idle state, maximum** | 2 W |
| **Power Consumption, normal conditions, maximum** | 10 W |
| **Input Voltage** | 10–30 Vdc |
| **Internal RET** | High band (2) |



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# 4P-4M-A2

## Electrical Specifications

| Frequency Band, MHz | 1695–1990 | 1920–2200 | 2300–2500 | 2490–2690 |
|---|---|---|---|---|
| **Gain, dBi** | 17.8 | 18.2 | 18.5 | 18.3 |
| **Beamwidth, Horizontal, degrees** | 64 | 62 | 62 | 57 |
| **Beamwidth, Vertical, degrees** | 6.9 | 6.2 | 5.3 | 5.1 |
| **Beam Tilt, degrees** | 0–10 | 0–10 | 0–10 | 0–10 |
| **USLS (First Lobe), dB** | 20 | 18 | 18 | 17 |
| **Front-to-Back Ratio, Copolarization 180° ± 30°, dB** | 30 | 29 | 29 | 30 |
| **Isolation, Cross Polarization, dB** | 28 | 28 | 28 | 28 |
| **Isolation, Inter-band, dB** | 28 | 28 | 28 | 28 |
| **VSWR \| Return loss, dB** | 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 |
| **Input Power per Port, maximum, watts** | 250 | 250 | 250 | 250 |

## Electrical Specifications, BASTA

| Frequency Band, MHz | 1695–1990 | 1920–2200 | 2300–2500 | 2490–2690 |
|---|---|---|---|---|
| **Gain by all Beam Tilts, average, dBi** | 17.5 | 17.9 | 18.2 | 17.8 |
| **Gain by all Beam Tilts Tolerance, dB** | ±0.6 | ±0.3 | ±0.5 | ±0.6 |
| **Beamwidth, Horizontal Tolerance, degrees** | ±3.7 | ±2.5 | ±2.7 | ±3.2 |
| **Beamwidth, Vertical Tolerance, degrees** | ±0.6 | ±0.5 | ±0.3 | ±0.3 |
| **Front-to-Back Total Power at 180° ± 30°, dB** | 24 | 26 | 25 | 25 |
| **CPR at Boresight, dB** | 21 | 24 | 22 | 22 |
| **CPR at Sector, dB** | 11 | 13 | 9 | 9 |

## Mechanical Specifications

| | |
|---|---|
| **Wind Speed, maximum** | 241 km/h \| 149.75 mph |

## Packaging and Weights

| | |
|---|---|
| **Width, packed** | 400 mm \| 15.748 in |
| **Depth, packed** | 238 mm \| 9.37 in |
| **Length, packed** | 1557 mm \| 61.299 in |
| **Net Weight, without mounting kit** | 10.7 kg \| 23.589 lb |



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| | |
|---|---|
| **Weight, gross** | 16.2 kg \| 35.715 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 |

## Included Products

| | |
|---|---|
| BSAMNT-B95-01 | 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 |



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