

4P-4L-A2



4-port sector antenna, 4x 694–960 MHz, 65° HPBW, 2x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

General Specifications

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|--|--|
| Antenna Type | Sector |
| 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 |
| Radome Material | Fiberglass, UV resistant |
| Radiator Material | Aluminum |
| Reflector Material | Aluminum |
| RF Connector Interface | 4.3-10 Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, low band | 4 |
| RF Connector Quantity, total | 4 |

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) |
| Power Consumption, active state, maximum | 10 W |
| Power Consumption, idle state, maximum | 2 W |
| Protocol | 3GPP/AISG 2.0 (Single RET) |

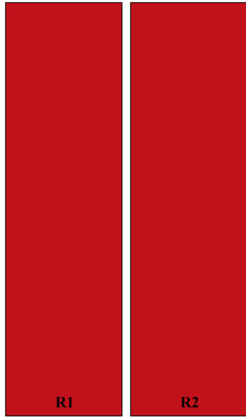
Dimensions

| | |
|--------------|--------------------|
| Width | 467 mm 18.386 in |
|--------------|--------------------|

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|---------------------------------|---------------------|
| Depth | 167 mm 6.575 in |
| Length | 1497 mm 58.937 in |
| Net Weight, antenna only | 15.6 kg 34.392 lb |

Array Layout



| Array ID | Frequency (MHz) | RF Connector | HPBW | RET (SRET) | AISG No. | AISG RET UID |
|----------|-----------------|--------------|------|------------|----------|------------------|
| R1 | 694-960 | 1 - 2 | 65° | 1 | AISG1 | CPxxxxxxxxxxxxR1 |
| R2 | 694-960 | 3 - 4 | 65° | 2 | AISG1 | CPxxxxxxxxxxxxR2 |

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

Port Configuration



Electrical Specifications

| | |
|------------------|--------|
| Impedance | 50 ohm |
|------------------|--------|

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| | |
|-----------------------------------|---------------|
| Operating Frequency Band | 694 – 960 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 800 W |

Electrical Specifications

| | R1,R2 | R1,R2 | R1,R2 |
|---|----------------|----------------|----------------|
| Frequency Band, MHz | 694–790 | 790–890 | 890–960 |
| RF Port | 1-4 | 1-4 | 1-4 |
| Gain, dBi | 14.5 | 14.8 | 15.2 |
| Beamwidth, Horizontal, degrees | 62 | 60 | 60 |
| Beamwidth, Vertical, degrees | 15.1 | 13.6 | 12.6 |
| Beam Tilt, degrees | 2–16 | 2–16 | 2–16 |
| USLS (First Lobe), dB | 15 | 18 | 18 |
| Front-to-Back Ratio, Copolarization 180° ± 30°, dB | 27 | 28 | 28 |
| Isolation, Cross Polarization, dB | 28 | 28 | 28 |
| Isolation, Inter-band, dB | 28 | 28 | 28 |
| VSWR Return loss, dB | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc | -150 | -150 | -150 |
| Input Power per Port, maximum, watts | 300 | 300 | 300 |

Electrical Specifications, BASTA

| | 694–790 | 790–890 | 890–960 |
|---|----------------|----------------|----------------|
| Frequency Band, MHz | 694–790 | 790–890 | 890–960 |
| Gain by all Beam Tilts, average, dBi | 14.2 | 14.6 | 14.9 |
| Gain by all Beam Tilts Tolerance, dB | ±0.4 | ±0.3 | ±0.5 |
| Beamwidth, Horizontal Tolerance, degrees | ±3 | ±4 | ±4 |
| Beamwidth, Vertical Tolerance, degrees | ±1 | ±0.6 | ±0.9 |
| CPR at Boresight, dB | 25 | 24 | 23 |

Mechanical Specifications

| | |
|---|---|
| Wind Loading @ Velocity, frontal | 595.0 N @ 150 km/h (133.8 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 222.0 N @ 150 km/h (49.9 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 735.0 N @ 150 km/h (165.2 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Packaging and Weights

4P-4L-A2

| | |
|-----------------------|---------------------|
| Width, packed | 542 mm 21.339 in |
| Depth, packed | 277 mm 10.906 in |
| Length, packed | 1697 mm 66.811 in |
| Weight, gross | 25 kg 55.116 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.commscope.com/ProductCompliance |
| ROHS | Compliant |
| 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. |
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* Footnotes

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