

KKSS-65A-R2



8-port sector antenna, 4x 617-960MHz, 4x 3100-4000 MHz, 65deg HPBW, 2x RET

General Specifications

| | |
|---|--|
| Antenna Type | Sector |
| 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 |
| Reflector Material | Aluminum |
| RF Connector Interface | 4.3-10 Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, high band | 4 |
| RF Connector Quantity, low band | 4 |
| RF Connector Quantity, total | 8 |

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 (1) Low band (1) |
| Power Consumption, active state, maximum | 8 W |
| Power Consumption, idle state, maximum | 1 W |
| Protocol | 3GPP/AISG 2.0 |

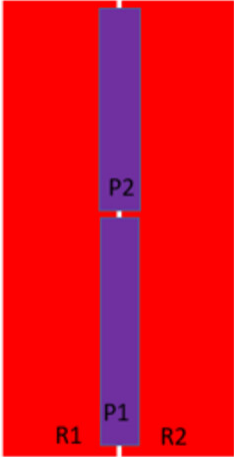
Dimensions

| | |
|--------------|--------------------|
| Width | 498 mm 19.606 in |
|--------------|--------------------|

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Depth 197 mm | 7.756 in
Length 1499 mm | 59.016 in

Array Layout



| Array | Freq (MHz) | Conns | RET (SRET) | AISG RET UID |
|-------|------------|-------|------------|----------------------|
| R1 | 617-960 | 1-2 | 1 | CPxxxxxxxxxxxxxxxxR1 |
| R2 | 617-960 | 3-4 | | |
| P1 | 3100-4000 | 5-6 | 2 | CPxxxxxxxxxxxxxxxxP1 |
| P2 | 3100-4000 | 7-8 | | |

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

Port Configuration



Electrical Specifications

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| | |
|-----------------------------------|---------------------------------|
| Impedance | 50 ohm |
| Operating Frequency Band | 3100 – 4000 MHz 617 – 960 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 800 W @ 50 °C |

Electrical Specifications

| | R1,R2 | R1,R2 | R1,R2 | R1,R2 | P1,P2 | P1,P2 | P1,P2 | P1,P2 |
|---|----------------|----------------|----------------|----------------|------------------|------------------|------------------|------------------|
| Frequency Band, MHz | 617–698 | 698–806 | 806–894 | 880–960 | 3100–3300 | 3300–3550 | 3550–3700 | 3700–4000 |
| RF Port | 1,2,3,4 | 1,2,3,4 | 1,2,3,4 | 1,2,3,4 | 5,6,7,8 | 5,6,7,8 | 5,6,7,8 | 5,6,7,8 |
| Gain, dBi | 13.2 | 13.3 | 13.8 | 14.1 | 17 | 17.1 | 17.1 | 16.8 |
| Beamwidth, Horizontal, degrees | 67 | 59 | 59 | 60 | 55 | 54 | 60 | 62 |
| Beamwidth, Vertical, degrees | 18.3 | 16.6 | 14.9 | 13.8 | 7.2 | 6.8 | 6.5 | 6.3 |
| Beam Tilt, degrees | 4–18 | 4–18 | 4–18 | 4–18 | 2–12 | 2–12 | 2–12 | 2–12 |
| USLS (First Lobe), dB | 15 | 16 | 15 | 17 | 18 | 17 | 16 | 17 |
| Front-to-Back Ratio at 180°, dB | 27 | 27 | 27 | 29 | 30 | 31 | 30 | 29 |
| Front-to-Back Total Power at 180° ± 30°, dB | 21 | 21 | 22 | 22 | 26 | 25 | 24 | 23 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Isolation, Inter-band, dB | 25 | 25 | 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 | 1.5 14.0 | 1.5 14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc | -150 | -150 | -150 | -150 | -145 | -145 | -145 | -145 |
| Input Power per Port at 50°C, maximum, watts | 250 | 250 | 250 | 250 | 150 | 150 | 150 | 150 |

Electrical Specifications, BASTA

| | 617–698 | 698–806 | 806–894 | 880–960 | 3100–3300 | 3300–3550 | 3550–3700 | 3700–4000 |
|---|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| USLS, beampeak to 20° above beampeak, dB | | | | | 14 | 15 | 15 | 13 |
| CPR at Boresight, dB | 20 | 23 | 24 | 23 | 19 | 19 | 17 | 18 |
| CPR at Sector, dB | 12 | 10 | 10 | 8 | 2 | 7 | 8 | 5 |

Mechanical Specifications

| | |
|---|---|
| Wind Loading @ Velocity, frontal | 498.0 N @ 150 km/h (112.0 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 148.0 N @ 150 km/h (33.3 lbf @ 150 km/h) |

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| | |
|---|---|
| Wind Loading @ Velocity, maximum | 597.0 N @ 150 km/h (134.2 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 342.0 N @ 150 km/h (76.9 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Environmental Specifications

| | |
|------------------------------|--------------------------------------|
| Operating Temperature | -40 °C to +70 °C (-40 °F to +158 °F) |
|------------------------------|--------------------------------------|

Packaging and Weights

| | |
|-----------------------|---------------------|
| Width, packed | 565 mm 22.244 in |
| Depth, packed | 309 mm 12.165 in |
| Length, packed | 1686 mm 66.378 in |
| Weight, gross | 36.9 kg 81.35 lb |
| Weight, net | 25 kg 55.116 lb |

Regulatory Compliance/Certifications

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



Included Products

| | | |
|----------|---|---|
| BSAMNT-3 | – | Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 (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-3



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 6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 6.4 kg | 14.11 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 |

BSAMNT-3

