

# 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, mid band	0
RF Connector Quantity, low band	4
RF Connector Quantity, total	8

## Remote Electrical Tilt (RET) Information

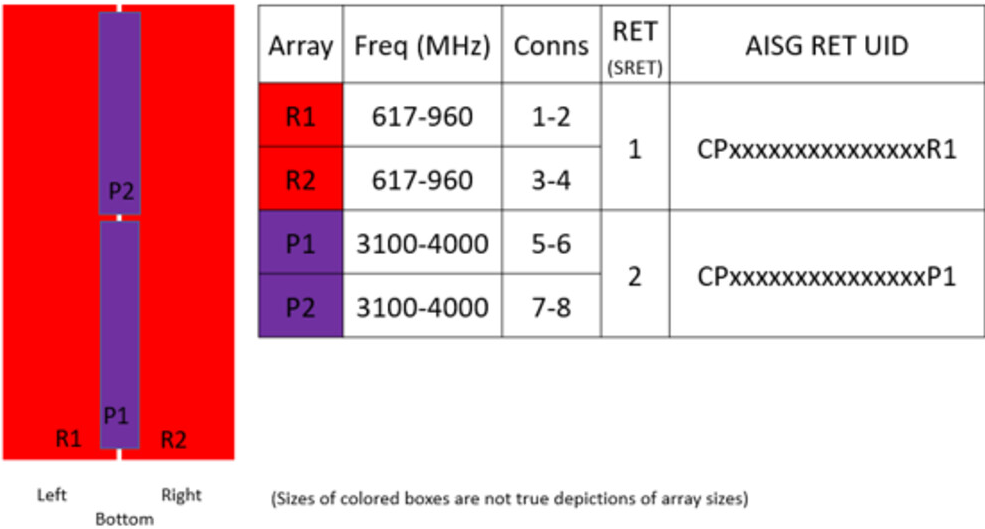
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female   8-pin DIN Male
RET Interface, quantity	1 female   1 male
Input Voltage	10–30 Vdc
Internal RET	High band (1)   Low band (1)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0

## Dimensions

# KKSS-65A-R2

Width	498 mm   19.606 in
Depth	197 mm   7.756 in
Length	1499 mm   59.016 in

## Array Layout



## Port Configuration



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## Electrical Specifications

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

## 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)
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

# KKSS-65A-R2

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

## Packaging and Weights

<b>Width, packed</b>	565 mm   22.244 in
<b>Depth, packed</b>	309 mm   12.165 in
<b>Length, packed</b>	1686 mm   66.378 in
<b>Weight, gross</b>	36.9 kg   81.35 lb
<b>Weight, net</b>	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 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.
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## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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