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

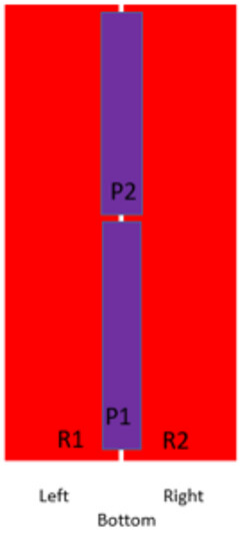
Dimensions

Width	498 mm | 19.606 in

KKSS-65A-R2

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	CPxxxxxxxxxxxxxxR1
R2	617-960	3-4		
P1	3100-4000	5-6	2	CPxxxxxxxxxxxxxxP1
P2	3100-4000	7-8		

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

Port Configuration

Electrical Specifications

KKSS-65A-R2

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

Frequency Band, MHz	**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)

KKSS-65A-R2

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 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