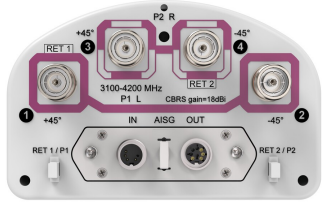


SS-65M-R2



4-port sector antenna, 4x 3100-4200 MHz, 65°HPBW, 2x RET

- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- With tilt indicators and integrated pluggable RET
- Conforms to RoHS 2011/65/EU

General Specifications

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	PVC, UV resistant
Radiator Material	Low loss circuit board
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

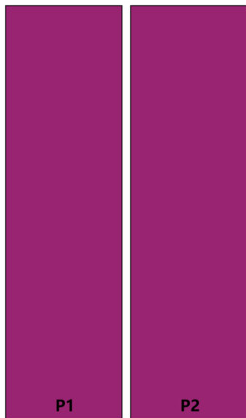
RET Hardware	CommRET v2
RET Interface	2x 8 pin connector as per IEC 60130-9 Daisy chain in: Male / Daisy chain out: Female Pin3: RS485A(AISG_B), Pin5: RS485B(AISG_A), Pin6: DC 10~30V, Pin7: DC_ Return
RET Interface, quantity	1 female 1 male
Input Voltage	10-30 Vdc
Internal RET	High band (2)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

SS-65M-R2

Width	170 mm 6.693 in
Depth	105 mm 4.134 in
Length	998 mm 39.291 in
Net Weight, without mounting kit	6.5 kg 14.33 lb

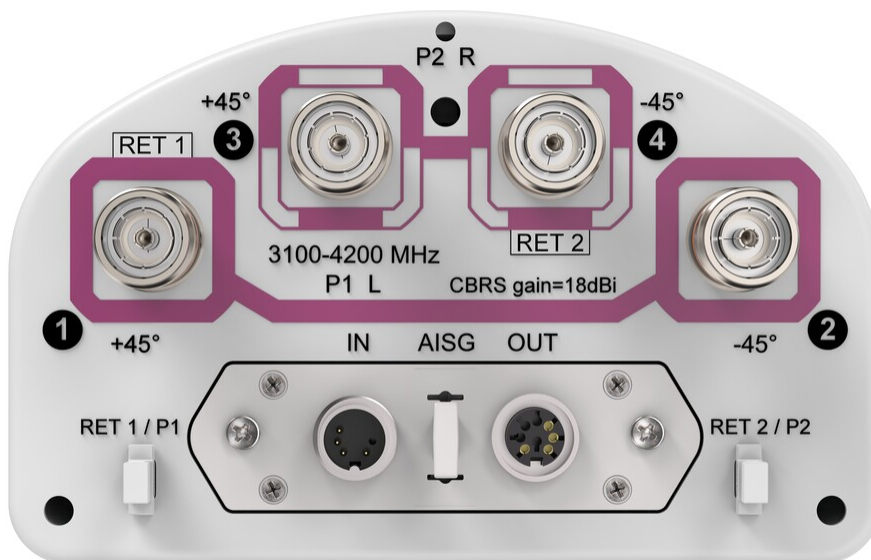
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG RET UID
P1	3100-4200	1 - 2	1	CPxxxxxxxxxxxxxxP1
P2	3100-4200	3 - 4	2	CPxxxxxxxxxxxxxxP2

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

Port Configuration



Electrical Specifications

SS-65M-R2

Impedance	50 ohm
Operating Frequency Band	3100 – 4200 MHz
Polarization	±45°
Total Input Power, maximum	500 W

Electrical Specifications

Frequency Band, MHz	3100–3550	3550–3700	3700–4200
Gain, dBi	18	18.3	18.2
Beamwidth, Horizontal, degrees	69	67	64
Beamwidth, Vertical, degrees	5.6	5.2	5.1
Beam Tilt, degrees	0–10	0–10	0–10
USLS (First Lobe), dB	22	23	20
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	26	27	27
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	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	3100–3550	3550–3700	3700–4200
Gain by all Beam Tilts, average, dBi	17.6	17.9	17.7
Beamwidth, Horizontal Tolerance, degrees	±3.9	±3.3	±4.8
CPR at Boresight, dB	19	18	19
CPR at Sector, dB	8	7	8

Mechanical Specifications

Wind Loading at Velocity, frontal	163.0 N @ 150 km/h 36.6 lbf @ 150 km/h
Wind Loading at Velocity, lateral	124.0 N @ 150 km/h 27.9 lbf @ 150 km/h
Wind Loading at Velocity, rear	271.0 N @ 150 km/h 60.9 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 149.75 mph

Packaging and Weights

Width, packed	275 mm 10.827 in
Depth, packed	218 mm 8.583 in

SS-65M-R2

Length, packed	1117 mm 43.976 in
Weight, gross	11.6 kg 25.574 lb
Weight, net	6.5 kg 14.33 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted



Included Products

- | | | |
|--------|---|---|
| DB390 | - | Pipe Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Use for narrow panel antennas. Includes two pipe mounts. |
| DB5098 | - | Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members |

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance