

ECOSD6Y



Features & Applications

- Tri-Sector with Internal RET antenna
- 4-port x 1710-2690 MHz per sector
- H 62° / V 11°
- Gain : 15.1 .dBi

ELECTRICAL SPECIFICATIONS

Port Information	-	Y1-Y2				
Frequency Range	(MHz)	1710-1880	1850-1990	1920-2170	2300-2400	2500-2690
Gain (Mid Tilt) (upper)	(dBi)	14.1	14.4	14.9	15	15.1
Gain (Mid Tilt) (Down)		14.5	14.9	15.6	15.7	15.4
Horizontal Pattern						
Azimuth Beam width	(°)	64	60	58	55	54
Front-to-Back Ratio	(dB)	25				
Cross Polar Discrimination at Boresight	(dB)	15				
Vertical Pattern						
Elevation Beam width	(°)	12	11	10.5	9.5	9
First Upper Side Lobe Suppression	(dB)	15				
Electrical Down tilt continuously adjustable	(°)	2-12				

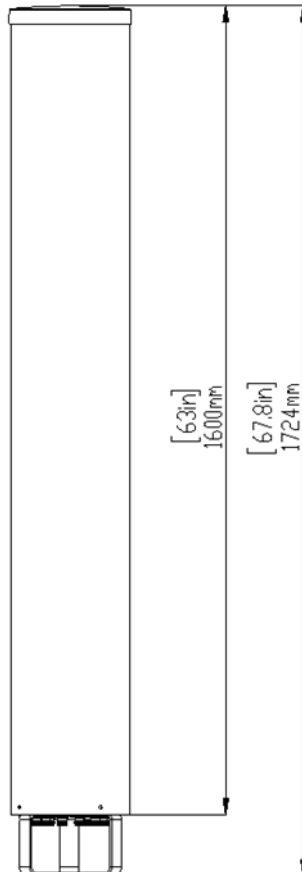
GENERAL SPECIFICATIONS

Isolation	(dB)	>25
Inter Band Isolation	(dB)	>30
VSWR	-	1.5 : 1
Polarization	(°)	±45
Intermodulation IM3	(dBc)	-153(2 x 43 dBm Carrier)
Impedance	(Ω)	50
Max. Effective Power per Port	(Watts)	250

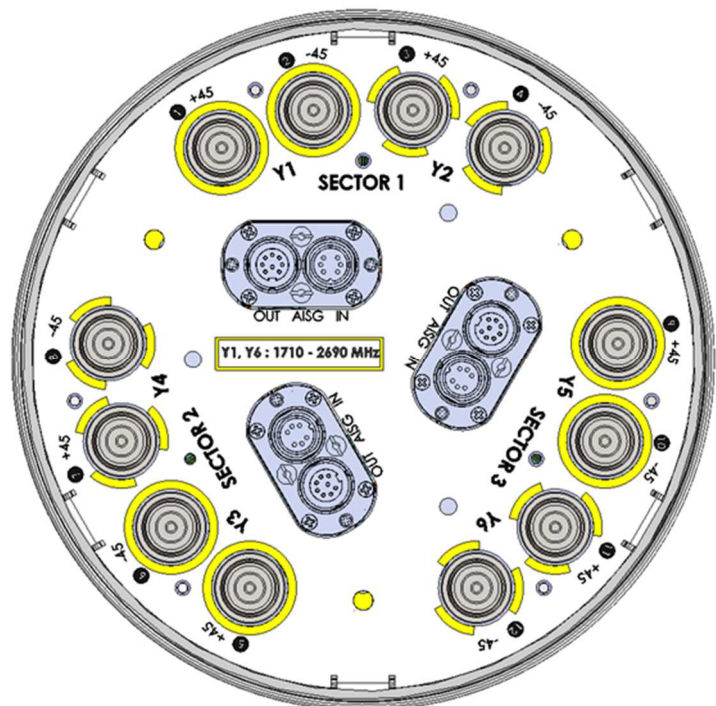
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Mechanical Dimensions

Outline



Back side

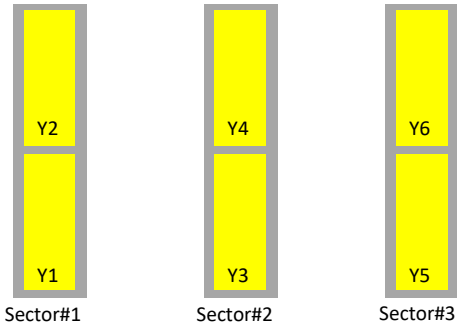


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MECHANICAL SPECIFICATIONS		
Connector Type & Quantity	-	12 x 4.3-10 Female
Connector Position	-	Bottom
Antenna Dimension (D x H)	(mm)	Ø 240 x 1600
Packaging Dimension (packed, W x H x D)	(mm)	380 x 380 x 1850
Weight (without Mounting Kit)	(kg)	20
Weight (Packed)	(kg)	30
Wind Load (@100 mph)	(N)	382N
Max. Wind Speed (Survival Wind Speed)	(mph)	150
Radome (Color)	-	ASA (Cool Gray / R7035)

Remote Electrical Tilt (RET)		
Internal RET	-	RETP-1T1(internal replaceable RET)
Protocol	-	3GPP/AISG 2.0

Array Information



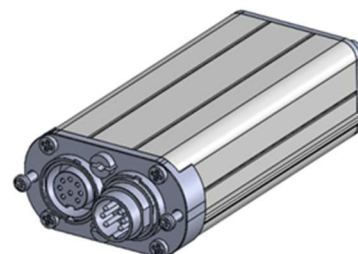
Sector No	Array	Frequency (MHz)	Connectors
Sector #1	Y1-Y2	1710-2690	1-4
Sector #2	Y3-Y4	1710-2690	5-8
Sector #3	Y5-Y6	1710-2690	9-12

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Internal RET (Remote Electrical Tilting device)

Features & Applications

- Remote Electrical Tilting device for Multi/Single antennas with electrical down-tilt
- Firmware updatable
- Compliant to AISG 2.0 / 3GPP
- Compact size



Technical Specification	
Product	RETP-1T1(internal replaceableRET)
Protocol	Match 3GPP B/ AISG2.0
Input voltage range	+10 ~ +30VDC (pin 6)
Power consumption	< 2W (stand by); < 13W (motor activated)
Connectors (AISG)	2x8Pin Connector (IEC60130-9) According to AISG connect type : Male is input Female is output (Male/Female can be input and output)
Hardware interface (AISG)	RS485A/B (pin5/pin3); Power supply (pin6); DC return (pin7) Acc. to AISG
Adjustment time (full range)	10~120 Seconds (typical 40S, Depends different Antenna)
Temperature range	-40 ~ +70°C
Protection class	IP65
Adjustment Cycles	10000 times
Housing material	Housing: Aluminum (Electrophoresis) Upper / Bottom cover: Zinc Alloys (Trivalent chromium plating)