

# ECOSD1R2Y

**Tri-Sector with  
Internal RET antenna**

2-port x 698-960 MHz  
4-port x 1710-2690 MHz  
H 65° / V 6.5°  
Gain : 15 dBi / 17 dBi

## Electrical specifications

Port Information	R1		
Frequency Range (Mhz)	698-806	790-862	880-960
Gain (Mid Tilt) (dBi)	15.3	15.4	15.1

### Horizontal Pattern

Azimuth Beam width (°)	73		74
Front-to-Back Ratio (dB)	20	22	20
Cross Polar Discrimination at Boresight (dB)	17		

### Vertical Pattern

Elevation Beam width (°)	11.5	10.5	10
First Upper Side Lobe Suppression (dB)	15		
Electrical Down tilt continuously adjustable (°)	2-12		

## Electrical specifications

Port Information	Y1-Y2				
Frequency Range (Mhz)	1710-1880	1850-1990	1920-2170	2300-2400	2500-2690
Gain (Mid Tilt) (dBi)	16.2	16.6	16.8	16.7	16.7

### Horizontal Pattern

Azimuth Beam width (°)	72	64	63	69	72
Front-to-Back Ratio (dB)	23	24	24	24	20
Cross Polar Discrimination at Boresight (dB)	18			15	15

### Vertical Pattern

Elevation Beam width (°)	7.1	6.4	6.1	5.4	4.8
First Upper Side Lobe Suppression(dB)	15				
Electrical Down tilt continuously adjustable (°)	2-12				

### General specifications

In-Band Cross Polar Port Isolation (dB)	>25
Inter-Band Port 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

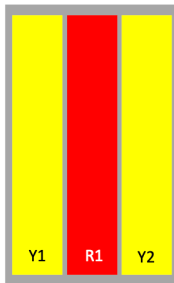
### Mechanical specifications

Connector Type & Quantity	18 x 4.3-10 Female
Connector Position	Bottom
Lightning Protection	DC Ground
Antenna Dimension (D x H) (inch / mm)	Ø 14.3 x 78.7 / Ø 365 x 2000
Weight (without Mounting Kit) (lb / kg)	99.2 / 45
Wind Load (@100 mph) (N)	Front 970, Side 970
Max.Wind Speed (Survival Wind Speed) (mph)	150
Radome (Color)	FRP (Gray)

### Remote Electrical Tilt (RET)

Internal RET	ACS-RM800(internal replaceable RET)
Protocol	3GPP/AISG 2.0

### Array information



Array	Frequency(MHz)	Connectors
R1	698-960	1-2
Y1-Y2	1710-2690	3-6

