

Earth Station Antenna Model NS-SEC-240 2.4m Antenna

Characteristics:

- Meets or exceeds CCIR 580 and Intelsat requirements;
- Meets Intelsat, Asiasat, Chinasat network access requirement;
- Ring focus designed;
- High gain, Low sidelobe, High G/T rate;
- Hot-dip zinc processed steel parts, with strong corrosion resistant ability;



Optional Characteristics:

- C band, Ku band, Ka band, S band, QV band, customized frequency available;
- Single pole /Semi-turnstile/Full-motion optional.
- Rx/Tx or 2Rx/2Tx;
- Two(2) and Three(3) Axis Motorization kit;
- De-icing for Reflector and Sub reflector;
- Single speed or dual speed controller.

RF SPECIFICATIONS**NS-SEC(C)-240****NS-SEC(Ku)-240****NS-SEC(Ka)-240**

Frequency	3.625~4.2GHz	5.85~6.425GHz	10.95~12.75GHz	13.75~14.5GHz	17.7~21.2GHz	27.5~31GHz
Gain, dBi	37.71@3.95GHz	41.63@6.2GHz	47.26@11.85GHz	48.78@14.125GHz	51.4@19.95GHz	54.73@29.25GHz
Polarization	Circular/Linear		Linear		Linear / Circular	
Cross-pol on Axis			≤35dB			
VSWR	1.25:1	1.25:1	1.25:1	1.25:1	1.35:1	
Axial ratio 2 port	1.3 dB	1.09 dB	/	/	1.5 dB	1.5 dB
Axial ratio 4 port	0.75 dB	0.75 dB	/	/	0.5 dB	0.5 dB
Feed insertion loss	≤0.2dB	≤0.2dB	≤0.3dB	≤0.3dB	0.6dB	0.6dB

Antenna Noise Temperature

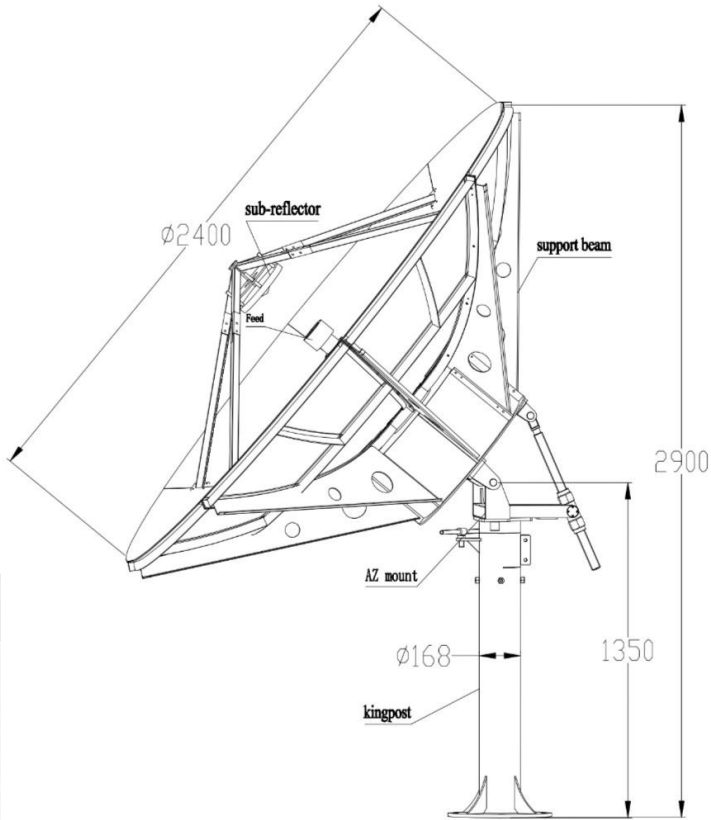
10° Elevation	38 K		49K		122 K	
20° Elevation	21K	/	43K	/	81K	/
40° Elevation	23 K		36K		76K	
-3dB Beam width	2.14°	1.36°	0.67°	0.59°	0.44°	0.29°
Power capacity	/	5KW	/	2KW	/	2KW
Feed interface	CPR-229G	CPR-137G	WR-75	WR-75	WR-42	WR-28
Isolation, Rx to Tx,	85 dB		85 dB		85 dB	
First Sidelobe	≤-14dB		≤-14dB		≤-14dB	
90% Peaks under Following envelop	29 - 25 logθ(1° ≤θ<20°)		29 - 25 logθ(1° ≤θ<20°)		29 - 25 logθ(1° ≤θ<20°)	

MECHANICAL SPECIFICATIONS

Antenna Diameter		2.4m
Antenna travel range	AZ	0° ~360° (continuous)
	EL	5° ~90°
	Pol	±90°
Antenna Type		Ring focus
Structure		EL over AZ
Drive Mode		Manual/Motorized
Surface accuracy(R.M.S)		≤0.5mm(Ku) ≤0.3mm(Ka)

ENVIRONMENT SPECIFICATIONS

Working wind speed	72km/h
Suvival wind speed	216km/h
Humidity	100%
Ice load	Icing 13mm: normal work Icing 25mm, no damage
Temperature	-30~50°C
Seismic capacity	Horizontal: 0.3G; vertical: 0.1G
Working wind speed	72km/h



Antenna package:

One set, total: 3 packages, dimension: 1.82 CBM, net weight: 250kg, gross weight: 310kg;
Loading capacity: 8sets for one 20ft container; 16sets for one 40ft container.

Note:

Weight and dimensions for reference only;
Can vary depends on options choosen;
Please confirm with us prior to any shipment.

