



ESER240KA2

ANCHOR 2.4m Ka-Band Earth Station Antenna

Drive Mode: Manual

We recommend purchasing the corresponding Antenna Control System along with the **motorized** Earth Station, unless you plan to develop the control system yourself. Please note that the Antenna Control System is sold separately at an additional cost. For Manual Structure Antennas, a control system is not required.



KEY SPECIFICATIONS

Band	Ka-Band
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ANTENNA SPECIFICATIONS

Antenna Aperture	2.4m
Antenna Drive Mode	manual structure antenna
Antenna Type	Ring Focus
Number Of Ports	2-ports
Polarization	Linear / Circular
Rx Axial Ratio 2 Ports	≤ 1.5 dB
Sidelobe	≤ -14 dB; $29 - 25 \log \theta (1^\circ \leq \theta < 20^\circ)$
Tx Axial Ratio 2 Ports	≤ 1.5 dB

RF SPECIFICATIONS

Noise Temperature Elevation 10°	124.5 K
Noise Temperature Elevation 20°	86 K
Noise Temperature Elevation 40°	60 K
Port Isolation Rx-tx	85 dB
Rx Feed Insertion Loss	0.6 dB
Rx Frequency	17.70 - 21.20 GHz
Rx Gain	51.4 @ 19.95GHz
Rx VSWR	1.35 : 1
Tx Feed Insertion Loss	0.6 dB
Tx Frequency	27.50 - 31.00 GHz

Tx Gain	54.73 @ 29.25GHz
Tx VSWR	1.35 : 1

ELECTRICAL SPECIFICATIONS

Power Capacity	2 KW
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INTERFACE SPECIFICATIONS

Rx Interface	WR-42
Tx Interface	WR-28

ENVIRONMENTAL SPECIFICATIONS

Humidity	1.0
Ice Load	Icing 13mm: normal work; Icing 25mm: no damage
Seismic Capacity Horizontal	0.3 G
Seismic Capacity Vertical	0.1 G
Temperature Operational	-30 - 50°C
Windspeed Operational	72 km/h
Windspeed Survival	216 km/h

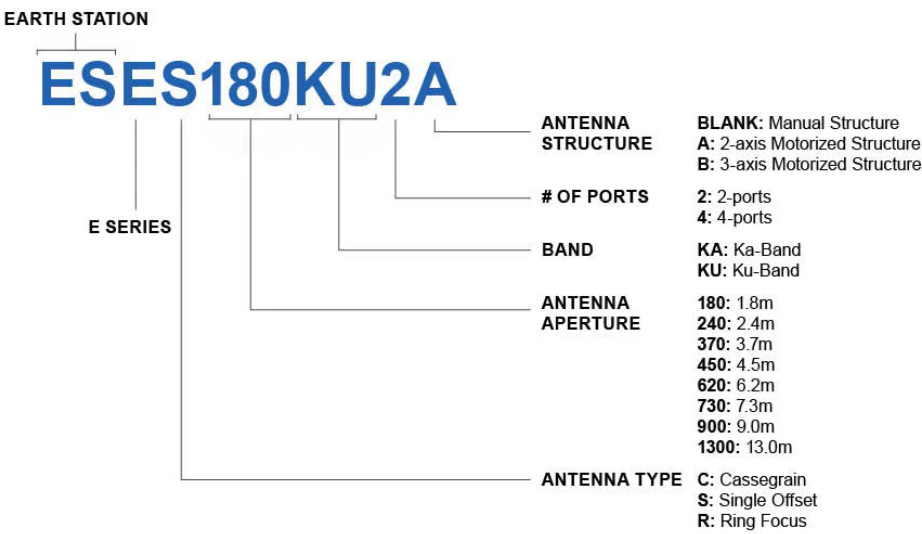
PHYSICAL SPECIFICATIONS

Loading Capacity	8 sets for one 20ft container; 16 sets for one 40ft container
Motion Range AZ	5° - 355° (continuous)
Motion Range EL	5° - 90°
Motion Range POL	±90°
Product Package Volume	1 package, dimension: 2.1 CBM
Product Weight	250 kg
RMS	≤0.3 mm
Structure	EL over AZ
Unit Package Weight	310 kg

LOGISTICS SPECIFICATIONS

HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package
		China		

HOW TO ORDER



MECHANICAL DIAGRAMS