



ESER730KA4A

ANCHOR 7.3m Ka-Band Earth Station Antenna

of Ports: 4-ports

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	7.3m
Antenna Drive Mode	2-axis motorized structure
Antenna Type	Ring Focus
Number Of Ports	4-ports
Polarization	Circular
Rx Axial Ratio 2 Ports	≤ 1.5 dB
Rx Axial Ratio 4 Ports	≤ 1 dB
Sidelobe	≤ -14 dB; $29 - 25 \log\theta (1^\circ \leq \theta < 20^\circ)$
Tx Axial Ratio 2 Ports	≤ 1.5 dB
Tx Axial Ratio 4 Ports	≤ 1 dB

RF SPECIFICATIONS

Noise Temperature Elevation 10°	126.5 K
Noise Temperature Elevation 20°	87.8 K
Noise Temperature Elevation 40°	62 K
Port Isolation Rx-tx	85 dB
Rx Feed Insertion Loss	≤ 0.5 dB
Rx Frequency	17.70 - 21.20 GHz
Rx Gain	61.37 @ 19.0GHz
Rx VSWR	1.35 : 1



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Tx Feed Insertion Loss	≤0.6 dB
Tx Frequency	27.50 - 31.00 GHz
Tx Gain	65.04 @ 29.0+GHz
Tx VSWR	1.35 : 1

ELECTRICAL SPECIFICATIONS

Power Capacity	5 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

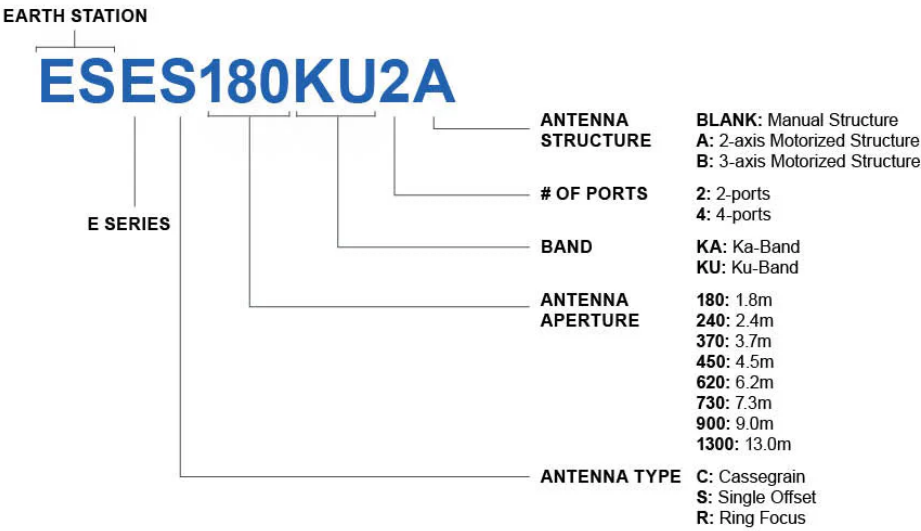
PHYSICAL SPECIFICATIONS

Loading Capacity	1 set for 40GP container
Motion Range AZ	±85°(Truss type), 5° - 355° continuous (turntable type)
Motion Range EL	5° - 90°
Motion Range POL	±90°
Product Package Volume	7 packages, dimension: 36.15 CBM
RMS	≤0.3 mm
Structure	LMC/ FMC

LOGISTICS SPECIFICATIONS

HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package
8529109090	Made in China	China		5210 kg

HOW TO ORDER



MECHANICAL DIAGRAMS



Norsat
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