



ESEC1300KU4B

ANCHOR 13.0m Ku-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	Ku-Band
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ANTENNA SPECIFICATIONS

Antenna Aperture	13.0m
Antenna Drive Mode	3-axis motorized structure
Antenna Type	Cassegrain
Number Of Ports	4-ports
Polarization	Linear
Rx Axial Ratio 2 Ports	≤ 1.2 dB
Rx Axial Ratio 4 Ports	≤ 0.75 dB
Rx Cross Polarization Isolation	≥ 30 dB
Sidelobe	≤ -14 dB; $29 - 25 \log \theta (1^\circ \leq \theta < 20^\circ)$
Tx Axial Ratio 2 Ports	≤ 1.2 dB
Tx Axial Ratio 4 Ports	≤ 0.75 dB
Tx Cross Polarization Isolation	≥ 30 dB

RF SPECIFICATIONS

Noise Temperature Elevation 10°	58 K
Noise Temperature Elevation 30°	47 K
Noise Temperature Elevation 50°	43 K
Port Isolation Rx-tx	85 dB
Rx Feed Insertion Loss	≤ 0.3 dB
Rx Frequency	10.70 - 12.75 GHz



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Rx Gain	62.28 @ 11.85GHz
Rx VSWR	1.3 : 1
Tx Feed Insertion Loss	≤0.3 dB
Tx Frequency	13.75 - 14.50 GHz
Tx Gain	63.8 @ 14.125GHz
Tx VSWR	1.3 : 1

ELECTRICAL SPECIFICATIONS

Power Capacity	2 KW
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INTERFACE SPECIFICATIONS

Rx Interface	WR-75
Tx Interface	WR-75

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	200 km/h

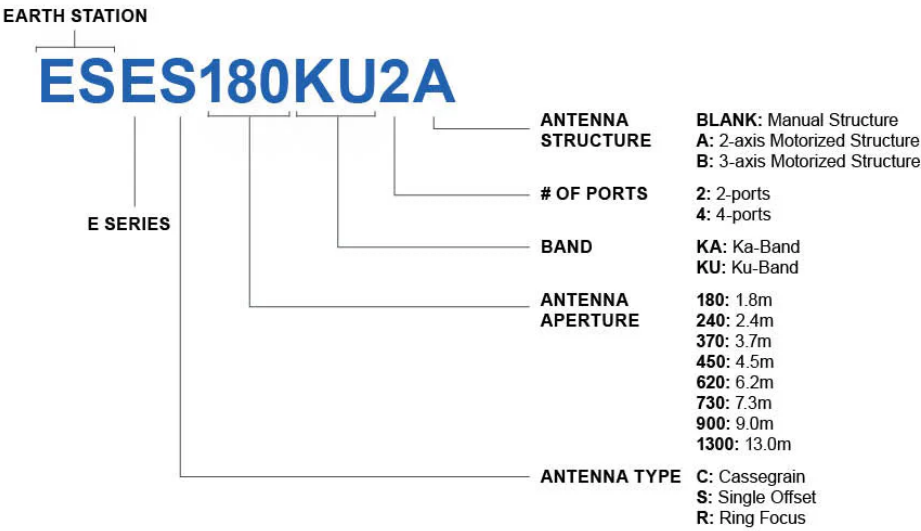
PHYSICAL SPECIFICATIONS

Motion Range AZ	±75°(Truss type), 0° - 360° (rotary platform structure)
Motion Range EL	5° - 90°
Motion Range POL	±90°
Product Weight	-
RMS	≤0.4 mm
Structure	LMC/ FMC
Unit Package Weight	-

LOGISTICS SPECIFICATIONS

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

HOW TO ORDER



MECHANICAL DIAGRAMS