



ESEC1300KA4A

ANCHOR 13.0m 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	13.0m
Antenna Drive Mode	2-axis motorized structure
Antenna Type	Cassegrain
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	≤ 0.75 dB

RF SPECIFICATIONS

Noise Temperature Elevation 10°	129 K
Noise Temperature Elevation 20°	90K
Noise Temperature Elevation 50°	65K
Port Isolation Rx-tx	≥ 85 dB
Rx Feed Insertion Loss	≤ 0.8 dB
Rx Frequency	17.70 - 21.20 GHz
Rx Gain	$\geq 66.03 + 20 \lg(f/19.0\text{GHz})$
Rx VSWR	1.35 : 1



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Tx Feed Insertion Loss	≤0.9dB
Tx Frequency	27.50 - 31.00 GHz
Tx Gain	≥69.70+20lg(f/29.0GHz)
Tx VSWR	1.35 : 1

ELECTRICAL SPECIFICATIONS

Power Capacity	2 KW
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INTERFACE SPECIFICATIONS

Rx Interface	FBP-220(WR-42)
Tx Interface	FBP-320(WR-28)

ENVIRONMENTAL SPECIFICATIONS

Humidity	1.0
Temperature Operational	-30 - 70°C
Windspeed Operational	72 km/h
Windspeed Survival	120km/h

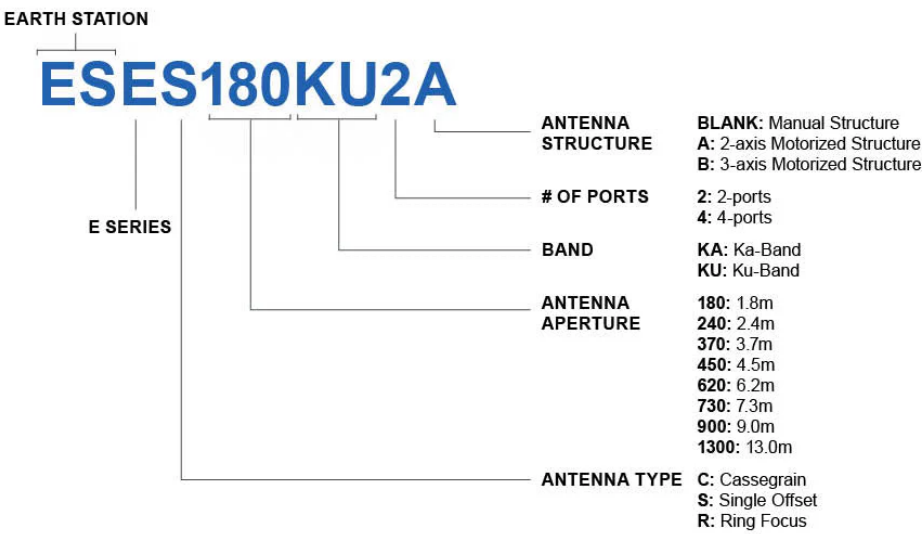
PHYSICAL SPECIFICATIONS

Motion Range AZ	5° - 355°
Motion Range EL	5° - 90°
Motion Range POL	±90°
Product Weight	-
Unit Package Weight	-

LOGISTICS SPECIFICATIONS

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

HOW TO ORDER



MECHANICAL DIAGRAMS