



ESEC900KU2B

ANCHOR 9.0m Ku-Band Earth Station Antenna

of Ports: 2-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	9.0m
Antenna Drive Mode	3-axis motorized structure
Antenna Type	Cassegrain
Number Of Ports	2-ports
Polarization	Linear
Rx Axial Ratio 2 Ports	≤ 1.3 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	≤ 1.3 dB
Tx Cross Polarization Isolation	≥ 30 dB

RF SPECIFICATIONS

Noise Temperature Elevation 10°	63 K
Noise Temperature Elevation 20°	51.9 K
Noise Temperature Elevation 50°	45 K
Port Isolation Rx-tx	85 dB
Rx Feed Insertion Loss	≤ 0.3 dB
Rx Frequency	10.70 - 12.75 GHz
Rx Gain	59.55 @ 12.5GHz
Rx VSWR	1.3 : 1



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Tx Feed Insertion Loss	≤0.3 dB
Tx Frequency	13.75 - 14.50 GHz
Tx Gain	60.53 @ 14.0GHz
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	216 km/h

PHYSICAL SPECIFICATIONS

Loading Capacity	1 set for 40HQ container + 1 set for 20GP container
Motion Range AZ	±75°(Truss type), 5° - 355° continuous(tumtable type)
Motion Range EL	5° - 90°
Motion Range POL	±90°
Product Package Volume	12 packages, dimension: 73CBM
RMS	≤0.4 mm
Structure	LMC/ FMC

LOGISTICS SPECIFICATIONS

HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package
8529109090	Made in China	China		10205 kg

HOW TO ORDER



EARTH STATION

ESES180KU2A

E SERIES

ANTENNA
STRUCTURE

BLANK: Manual Structure
A: 2-axis Motorized Structure
B: 3-axis Motorized Structure

OF PORTS

2: 2-ports
4: 4-ports

BAND

KA: Ka-Band
KU: Ku-Band

ANTENNA
APERTURE

180: 1.8m
240: 2.4m
370: 3.7m
450: 4.5m
620: 6.2m
730: 7.3m
900: 9.0m
1300: 13.0m

ANTENNA TYPE

C: Cassegrain
S: Single Offset
R: Ring Focus

MECHANICAL DIAGRAMS



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