



## ESEC1300KA2A

### ANCHOR 13.0m Ka-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 | Ka-Band |
|------|---------|

### ANTENNA SPECIFICATIONS

|                        |                                                                       |
|------------------------|-----------------------------------------------------------------------|
| Antenna Aperture       | 13.0m                                                                 |
| Antenna Drive Mode     | 2-axis motorized structure                                            |
| Antenna Type           | Cassegrain                                                            |
| Number Of Ports        | 2-ports                                                               |
| Polarization           | Circular                                                              |
| Rx Axial Ratio 2 Ports | $\leq 1.5$ dB                                                         |
| Sidelobe               | $\leq -14$ dB; $29 - 25 \log \theta (1^\circ \leq \theta < 20^\circ)$ |
| Tx Axial Ratio 2 Ports | $\leq 1.5$ dB                                                         |

### RF SPECIFICATIONS

|                                 |                                          |
|---------------------------------|------------------------------------------|
| Noise Temperature Elevation 10° | 129 K                                    |
| Noise Temperature Elevation 20° | 90K                                      |
| Noise Temperature Elevation 50° | 65K                                      |
| Port Isolation Rx-tx            | $\geq 85$ dB                             |
| Rx Feed Insertion Loss          | $\leq 0.8$ dB                            |
| Rx Frequency                    | 17.70 - 21.20 GHz                        |
| Rx Gain                         | $\geq 66.03 + 20 \log(f/19.0\text{GHz})$ |
| Rx VSWR                         | 1.35 : 1                                 |
| Tx Feed Insertion Loss          | $\leq 0.9$ dB                            |
| Tx Frequency                    | 27.50 - 31.00 GHz                        |



## Innovative Communication Solutions

|         |                                         |
|---------|-----------------------------------------|
| Tx Gain | $\geq 69.70 + 20 \lg(f/29.0\text{GHz})$ |
| Tx VSWR | 1.35 : 1                                |

## ELECTRICAL SPECIFICATIONS

|                |      |
|----------------|------|
| Power Capacity | 2 KW |
|----------------|------|

## 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    |

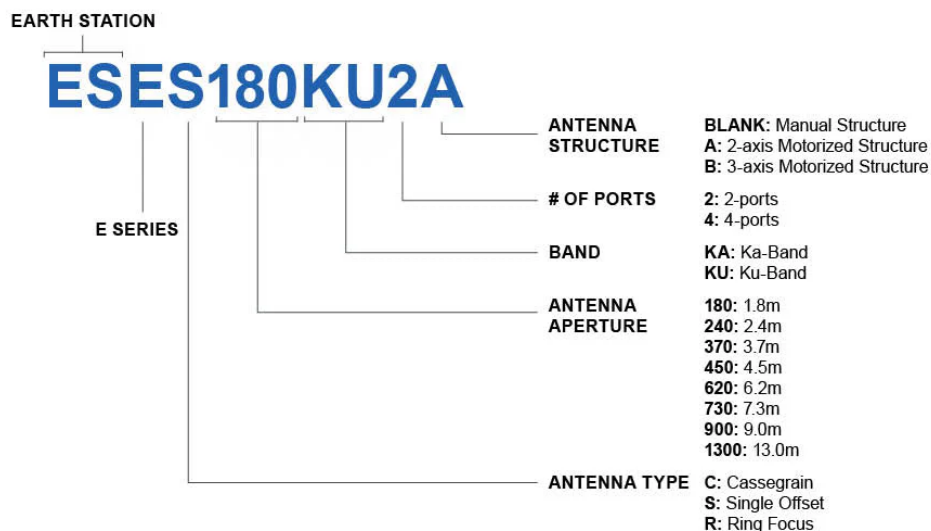
## PHYSICAL SPECIFICATIONS

|                  |           |
|------------------|-----------|
| Motion Range AZ  | 5° - 355° |
| Motion Range EL  | 5° - 90°  |
| Motion Range POL | ±90°      |

## LOGISTICS SPECIFICATIONS

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

## HOW TO ORDER



## MECHANICAL DIAGRAMS