

# ACS450KA-B

## Dual Speed Control System for 4.5m Ka-Band Earth Station

Antenna control systems are supplied only for **Motorized** Earth Station Antennas. Please select the "Motorized" drive mode for Recommended Combinations below. Manual Earth Stations do **NOT** require a control system.

To select the correct Anchor Earth Station Antenna model for the control system, please refer to the corresponding antenna aperture, band, and drive mode.

For example, ACS450KA-B is compatible with [ESER450KA2A](#) and [ESER450KA4A](#).



## KEY SPECIFICATIONS

|                 |                           |
|-----------------|---------------------------|
| Band            | Ka-Band                   |
| Drive Speed     | Dual speed (High and Low) |
| Structural Form | 3-axis, separate ACU/ADU  |

## ANTENNA SPECIFICATIONS

|                          |                                                        |
|--------------------------|--------------------------------------------------------|
| Angle Display resolution | 0.01°                                                  |
| Angle Display Range      | 0 - 360°                                               |
| Antenna Aperture         | 4.5m                                                   |
| Encoder Accuracy AZ      | 0.01°                                                  |
| Encoder Accuracy EL      | 0.01°                                                  |
| Encoder Accuracy POL     | 0.08°                                                  |
| Preset Satellite         | ACU supports 50 satellites; ADU supports 10 satellites |
| Tracking Accuracy        | 1/10 reception beamwidth                               |
| Type                     | Dual speed, separated ACU and ADU control system       |

## ELECTRICAL SPECIFICATIONS

|                   |                                                      |
|-------------------|------------------------------------------------------|
| Power Consumption | 3500W                                                |
| Power Supply      | ACU: AC 220V±10%, 50/60Hz; ADU: AC 380V±10%, 50/60Hz |

## INTERFACE SPECIFICATIONS

|                  |                                         |
|------------------|-----------------------------------------|
| Remote Interface | RJ-45 network(optional fiber interface) |
|------------------|-----------------------------------------|

## ENVIRONMENTAL SPECIFICATIONS

|        |                                                                                                                                        |
|--------|----------------------------------------------------------------------------------------------------------------------------------------|
| Safety | 1.Soft and hard limits provide guarantee for the safe operation of the antenna; 2.The cables are all flame retardant series cables; 3. |
|--------|----------------------------------------------------------------------------------------------------------------------------------------|



## Innovative Communication Solutions

Temperature Operational

Each rotating shaft is equipped with an independent circuit breaker, which further improves the safety of the system.

-20 - 60°C

Temperature Operational Cable

-20 - 60°C; low-temperature cable: -30 - 90°C

## PHYSICAL SPECIFICATIONS

Product Dimension

Standard Chassis 6U

Product Dimensions (LxWxH)

560 x 340 x 1400 mm

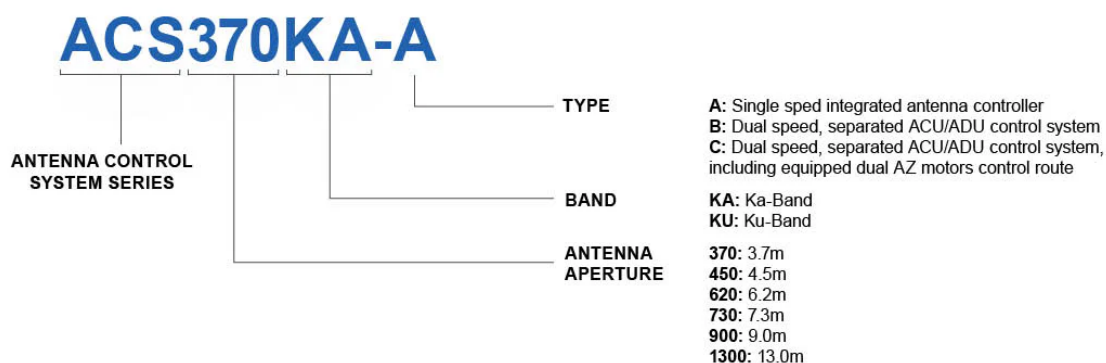
Standard Configuration

Antenna control unit, antenna drive unit, beacon tracking receiving unit, photoelectric encoder, flame retardant cable and connectors

## LOGISTICS SPECIFICATIONS

| HS Code    | Country of Origin | Ex Works             | ECCN Number | Unit Package |
|------------|-------------------|----------------------|-------------|--------------|
| 8529109090 | Made in China     | Richmond, BC, Canada |             |              |

## HOW TO ORDER



## MECHANICAL DIAGRAMS



AZ  
**151.56**

EL  
**36.01**

AGC  
**0.00**

IP   
PORT

Latitude and Longitide  
Longitude   
Latitude

Software Limits  
AZ CW  AZ CCW   
EL UP  EL DOW

Limit State

• Sat Guide  
Satellite:   
Longitude:   
Frequency:   
Select:

• Manual

• Position Guide  
AZ Angle:   
EL Angle:   
POL Angle:

• Track

• Scan

The control device is connected!2022-05-16 15:56:17