

## AC3000E antenna Control system(AC Control System)

AC3000E-ACU



AC3000E-ADU



### General Description:

The Probecom Model AC3000E Antenna Control Unit enables satellite earth station antennas to accurately track geostationary and Inclined orbit satellites up to 5 degree. AC3000E antenna control system is designed with the latest digital processing technology, the most precise antenna pointing, high reliability and maximum flexible system configuration. The system is remotely controllable over Ethernet via TCP/IP or various serial ports (, RS-232, RS-485.)

### Highlight:

- ◆ Key Stroke Operation
- ◆ Two speed driver (high for slew, Low for tracking)
- ◆ VFD display
- ◆ 50 Satellite Positions Preset, 50 Look angle Preset
- ◆ Three Axis Control for Az and El, Polarization as a option.
- ◆ Software and hardware travel limit switches ensure the safety operation.
- ◆ Remote control over Ethernet or Various serial port

### Modes of Operation

- \* Standby
- \* Manual (High/low speed control)
- \* Step tracking
- \* Move to look angel or satellite
- \* Learning optimization tracking (LOP)  
(it can track synchronous satellites with inclined angle  $\leq 5^\circ$ ) (optional)
- \* Command mode (optional)
- \* Program tracking mode (optional)
- \* Scanning mode (optional)

### Tracking Accuracy

Better than 10% receive 3dB beamwidth RMS in Step Tracking  
Nominally 7% receive 3dB beamwidth RMS with LOP Tracking  
Position display resolution: 0.001°

### Controls / Interfaces

Front panel Local control  
Remote: Ethernet, TCP/IP  
Serial: RS-485, RS-232  
Receiver Interface: 0-10 VDC  
ADU: Standard Drive Interface  
Alarm: Summary output

### Environmental

Temperature: 0 to 50° C  
Humidity: 95% non-condensing

### Electrical

ACU: 100-240 VAC, 47-63 Hz 100 W typical  
ADU: Motor Size: 1-5 HP standard  
Larger sizes available

### Mechanical

ACU: Height: 7" (1 Rack Units)  
Width: 19"  
Depth: 19"  
ADU: Height: 1000mm  
Width: 700mm  
Depth: 300mm