Functional Description

The Model **ASC300Ku-E Beacon Tracking Receiver** is a high performance unit that is designed to real time track the power density of a satellite beacon and output a DC voltage that is linearly proportional to the beacon power by utilizing a true, RMS-responding power detector. The **ASC300Ku-E** will tune over any of the three primary Ku band satellites (10.7-11.70 GHz, 11.70-12.20 GHz, 12.25-12.75 GHz) by utilizing an external block down converter. The frequency band must be customer specified. The applications for the **ASC300Ku-E** are for antenna tracking controllers and uplink power control system.

**SatelliteDish.com**

**954-941-8883**

SatelliteDish.com   954-941-8883

**Quality  Products @ Reasonable Prices**

**Systems Specifications**

- **Input Frequency**: Customer Specified
  - Pre-detection Bandwidth: 60 kHz
  - Input Level: -90 dBm, min.; -30 dBm max.
  - Frequency Tuning: 10 kHz Steps
  - Frequency Adjust: Front Panel or remotely
  - AFC: ± 30 kHz
- **Input Impedance**: 50 Ohm
- **Output Impedance**: 100 Ohm, single ended
- **Tracking Gradient**: 0.5 V/dB, Std
- **Tracking Response**: 0 to +10 VDC for a 20 dB input level change
- **System Level Adjust**: 0 to 60 dB, 0.5 dB Steps
- **Frequency Stability**: <1 ppm, 0°C to +50°C
- **Frequency Reference**: 10 MHz (Internal)
- **Phase Noise**: >75 dBc-Hz, 1 kHz from Carrier
- **Alarm Relay**: Form-C
- **External LNB Power**: +24 VDC, switchable In-Out 500 ma Max.
- **CDS (Optional)**: DB-9, RS-232
- **Front Panel Display**: Vacuum Fluorescent
- **M&C**: RS-232 or RS-422/485 Switchable on rear panel.
- **Physical Characteristics**
  - **Size**: 1.75"H X 16.00"D X 19.00"W
  - **Weight**: 8 lb. (3.63 kg)
  - **Primary Power**: 90 - 264 VAC 47 - 63Hz, 1.4 A
  - **Environment Specifications**
    - **Operating Temperature**: 0°C to +50°C
    - **Storage Temperature**: -40°C to +70°C
    - **Humidity**: 95% RH@ 40°C

**Band 1** (10.7 to 11.70 GHz)
**Band 2** (11.70 to 12.75 GHz)

**CDS Continuous Digital Streaming (Optional)**

The streaming option associated with the **ASC300 series of beacon tracking receivers** provides a continuous, two byte, data stream running at 9600 baud that contains ten bits of signal strength level indication as well as lock or alarm condition of the unit. A female DB9, interface connector on the rear of the unit is specifically dedicated for this option.