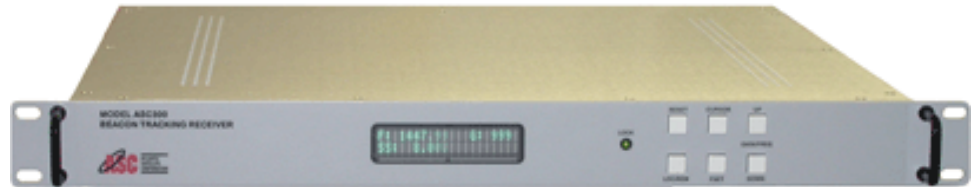


# Model ASC300Ku-E (External BDC) Beacon Tracking Receiver

Quality Products @ Reasonable Prices



## 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.**

## Systems Specifications

Input Frequency ..... Customer Specified  
 ..... External Block Converter  
 Pre-detection Bandwidth ..... 60 kHz  
 Input Level ..... -90 dBm, min.; -30 dBm max.  
 For full tracking range capability  
 Frequency Tuning..... 10 kHz Steps  
 Frequency Adjust..... Front Panel or remotely  
 AFC .....  $\pm 30$  kHz  
 Threshold..... <45 dB-Hz ( $C/N_0$ ) for acquisition  
 Input Impedance..... 50 Ohm  
 Input Connector ..... Type-N, Female (**SMA Optional**)  
 Output Impedance..... 100 Ohm, single ended  
 Output Connector ..... Terminal plug and BNC Female  
 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<sup>o</sup>c to +50<sup>o</sup> c  
 Frequency Reference ..... 10 MHz (Internal)

Phase Noise..... >75 dBc-Hz, 1 kHz from Carrier  
 Alarms ..... Unit Lock  
 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.  
 M&C Connector ..... DB-9, Female  
 Ethernet 10/100 Base T (**Optional**) ..... RJ-45 Connector

### 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  
 Auto-Sensing

### Environmental Specifications:

Operating Temperature ..... 0<sup>o</sup>c to +50<sup>o</sup> c  
 Storage Temperature ..... -40<sup>o</sup>c to +70<sup>o</sup> c  
 Humidity ..... 95% RH@ 40<sup>o</sup> 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.

Request A Quote