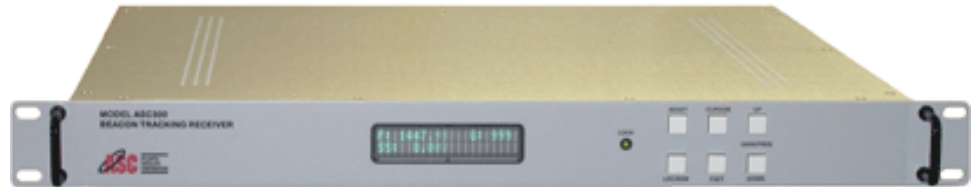


# Model ASC300Ku-E (External BDC) Beacon Tracking Receiver

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## 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<sub>0</sub>) 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)

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**954-941-8883**

### 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.

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