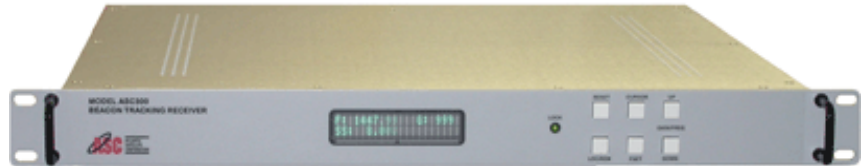


# Model ASC 300C Beacon Receiver

*Quality Products @ Reasonable Prices*



## Functional Description

The Model **ASC300C Beacon 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 applications for the **ASC300C** are for antenna tracking controllers and uplink power control system. Note: The model ASC300C can be offered with external BDC instead of an internal BDC.

## Systems Specifications

Input Frequency ..... 3400.000 to 4200.000 MHz  
 ..... **Internal 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  
 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 dB-Hz, 1 kHz from Carrier

Alarms ..... Unit Lock  
 Alarm Relay ..... Form-C  
 External Power ..... None (Internal BDC)  
 CDS (**Optional**) ..... DB-9, RS-232  
 DB9 interface connector ..... (optional) See Below \*  
 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 ..... 9 lb. (4.08 kg)  
 Primary Power ..... 90 - 264 VAC 47 - 63Hz  
 ..... 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

### \* CDS Continuous Digital Streaming

The streaming option associated with the ASC300 series of beacon 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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