

# Model ASC 350L(950 MHz to 2050 MHz) Beacon Tracking Receiver

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## Functional Description

The Model **ASC350L 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 applications for the **ASC350L** are for antenna step track controlling and uplink power control system.

The **ASC350L** is a modular unit that is designed to be remotely controlled by means of a RS232 or RS422 interface. The compact design of the unit makes it ideal for mounting directly into a transportable antenna system where space is at a premium. All monitoring and control functions are provided by a common DB-15 connector. By utilizing a wide range of DC voltage for powering the unit makes for a more flexible user interface.

## Systems Specifications

Input Frequency..... 950 MHz to 2050 MHz  
 Gain Stability..... ±2dB, 0 to 50° C  
 Input Level ..... -80 dBm, min.; -20 dBm max.  
 ..... For full tracking range capability  
 Frequency Tuning..... 10 kHz Steps  
 Frequency Adjust..... Remotely  
 Attenuation Adjust..... Remotely  
 Attenuation Steps ..... 0.5 dB  
 AFC..... ± 20 kHz  
 Threshold..... <45 dB-Hz  
 Input Impedance ..... 75 Ohm  
 Input Connector .... F-Type, Female, Type SMA (optional)  
 Output Impedance ..... 100 Ohm, single ended  
 Input/Output Connector ..... DB-15 Male  
 Tracking Response..... 0 to +10 VDC  
 ..... for a 20 dB input level change  
 System Level Range..... 60 dB  
 System Level Adjust ..... 0 to 60dB, 0.5dB Steps  
 Frequency Stability ..... ± 2 ppm  
 Frequency Reference ..... 10 MHz (Internal)



Phase Noise ..... >75 dB-Hz, 1 kHz from Carrier  
 Alarms ..... Unit Lock  
 Alarm Relay..... Form-A  
 Continuous Digital Streaming (CDS) ..... RS-232  
 ..... **(optional)**  
 M&C ..... RS-232 or RS-422(Selectable)

## Physical Characteristics

Size ..... 9"L X 4.25"W X 1.15"H  
 Weight ..... 1 lb. (454 g)  
 Primary Power ..... +12 to +20 VDC, ( 9Watts)  
**Environmental Specifications:**  
 Operating Temperature ..... 0°c to +50° c  
 Storage Temperature ..... -40°c to +70° c  
 Humidity ..... 95% RH@ 40° c

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## \* CDS Continuous Digital Streaming

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. Other baud rates are available. A male DB15 with dedicated pins, RS-232 interface connector unit is specifically dedicated for this option. RS-422 is optional.