

Model ASC 300-70 Beacon Tracking Receiver

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Functional Description

The Model **ASC300-70 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 **ASC300-70** are for antenna step track controlling and uplink power control system.

Systems Specifications

Input Frequency 65.00 to 75.00 MHz
 Pre-detection Bandwidth 40 kHz Std
 **Other Bandwidths Available**
 Input Level..... -80 dBm, min.; -50 dBm, max.
 For full tracking range capability
 Frequency Tuning 10 kHz Steps
 Frequency Adjust Front Panel or Remotely
 AFC +20 kHz
 Threshold <45 dB-Hz (C/N₀) for acquisition
 Input Impedance 50 Ohm
 Input Connector..... Type-BNC, 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..... 30 dB, Linear
 Frequency Stability.....<1 ppm, 0^oc to +50^oc
 Frequency Reference..... 10 MHz (Internal)

Phase Noise..... >75 dB-Hz, 1 kHz from Carrier
 Alarms Unit Lock
 Alarm Relay..... Form-C
 External LNB Power..... None
 Continuous Digital Streaming RS-232 or RS-422
 DB9 interface connector . (optional) See Below *
 Front Panel Display..... Vacuum Fluorescent
 M&CRS-232 or RS-422/485 Switchable
on rear panel.
 Ethernet 10/100 Base T (**Optional**)
 M&C Connector.....DB-9, Female
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^oc to +50^oc
 Storage Temperature -40^oc to +70^oc
 Humidity 95% RH@ 40^oc

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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 twelve bits of signal strength level indication as well as lock or alarm condition of the unit. Other baud rates are available. A female DB9, interface connector on the rear of the unit is specifically dedicated for this option.