

Model ASC 300-70 Beacon Receiver

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Functional Description:

The Model ASC300–70 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 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 60 kHz Std
 Input Level..... -90 dBm, min.; -30dBm, max.
 For full tracking range capability
 Frequency Tuning 10 kHz Steps
 Frequency Adjust Front Panel or Remotely
 AFC ± 30 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.....0 to 60 dB,0.5dB Steps
 Frequency Stability.....<1 ppm, 0⁰c to +50⁰c
 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
 CDS **Optional**..... RS-232 or RS-422
 DB9 Female connector on rear
 Front Panel Display Vacuum Fluorescent
 M&C RS-232 or RS-422/485 Switchable on rear
 M&C Connector DB-9, Female on rear
 Ethernet 10/100 Base T..... **(Optional)**
 Ethernet Connector RJ-45 on rear

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 0⁰c to +50⁰c
 Storage Temperature -40⁰c to +70⁰c
 Humidity 95% RH@ 40⁰c

Atlantic Satellite Corporation
 259 Expressway Court
 Virginia Beach, Virginia 23462

Phone: 757-318-3500
 Fax: 757-318-7020
Email: sales@atlanticsat.com
www.atlanticsat.com
www.beaconreceiver.net

Ethernet Option: Not installed on STD units. Must be installed at factory.
 Software support: Windows 98/2000/XP/2003/Vista/7 32bit & 64bit
 Protocol: TCP/IP, UDP, HTTP, SNMP, ARP, Telnet, ICMP, BOOTP, DHCP, SMTP

CDS Continuous Digital Streaming Option:

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.