

Model ASC 300L-D (950 MHz to 2300 MHz) Beacon Receiver

Quality Products @ Reasonable Prices



Functional Description

The Model ASC300L-D Beacon Receiver is designed for data tracking with side band rejection. This 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. The applications for the ASC300L-D are for antenna step track controlling and uplink power control system.

Systems Specifications

Input Frequency.....950 MHz to 2300 MHz
 Gain Stability± 1 dB, 0 to 50 deg. C
 Pre-detection Bandwidth **(1)** 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
 Threshold Alarm.....adjustable on 0.1V (0.2 dB) Steps
 from front panel
 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 Adjust0 to 60dB, 0.5dB Steps
 Frequency Stability ± 0.5 ppm
 Frequency Reference 10 MHz (Internal)
 Phase Noise >75 dB-Hz, 1 kHz from Carrier
 Alarms Unit Lock

Alarm Relay Form-C
Optional: External LNB Power +18 VDC, switchable
 In-Out, .300 ma, max. +15 and +24 VDC Optional
 Continuous Digital Streaming (CDS).....DB-9, RS-232
 **(Optional)** See Below *
 Front Panel Display..... Vacuum Fluorescent
 M&C..... RS-232 or RS-485 Switchable on rear panel
 M&C Connector DB-9, Female
Optional: 10/100 Fast Ethernet
 Ethernet Interface RJ-45 Jack connector
 Ethernet Protocol TCP/IP, UDP,
 HTTP,SNMP,ARP,Telnet,ICMP,BOOTP, DHCP,SMTP

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
 AutoSensing

Environmental Specifications:

Operating Temperature..... 0^oc to +50^o c
 Storage Temperature..... -40^oc to +70^o c
 Humidity..... 95% RH@ 40^o c

Note: (1) Requires ± 25 KHz Downlink Stability

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

*** 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, RS-232, interface connector on the rear of the unit is specifically dedicated for this option.