

## Model ASC300L-D (930 MHz to 2200 MHz) Beacon Receiver

*Quality Products @ Reasonable Prices*



### Functional Description

The Model ASC300L-D 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 ASC300L-D are for antenna step track controlling and uplink power control system.

### Systems Specifications

Input Frequency.....930 MHz to 2200 MHz  
 Signal Strength Detection Bandwidth (**Note1**) .....30 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..... 75 Ohm  
 Input Connector.....Type-F, Female std  
 .....Type-N Female or SMA Female (**Optional**)  
 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 60dB, 0.5dB Steps  
 Frequency Stability .....<1 ppm, 0<sup>o</sup>c to +50<sup>o</sup> c  
 Phase Noise ..... >75 dB-Hz, 1 kHz from Carrier

Alarm Relay..... Form-C  
 External LNB Power... +18 VDC, switchable In-Out, .500ma,max.  
 ..... +15 and +24 VDC (**Optional**)  
 CDS (**Optional**)..... DB-9, RS-232  
 ..... (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 Jack 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  
 ..... AutoSensing

#### 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

**Note: (1) Requires 60 KHz Optional**

#### \* CDS Continuous Digital Streaming (Optional)

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.

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### Functional Description

The Model ASC300L-D 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 ASC300L-D are for antenna step track controlling and uplink power control system.

### Systems Specifications

Input Frequency..... 930 MHz to 2200 MHz  
 Warm up from cold start ..... Within 1 db in < 2 minutes  
 Temperature Stability .....  $\pm 1.5$  dB, 0 to 50 deg C  
 Signal Strength 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  
 Threshold. Alarm..... adjustable on 0.1V (0.2 dB) Steps from front panel  
 Input Impedance..... 50 Ohm  
 Input Connector..... Type-N, Female std  
 ..... Type-F Female or SMA Female (**Optional**)  
 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 60dB, 0.5dB Steps  
 Frequency Stability ..... <1 ppm, 0<sup>o</sup>c to +50<sup>o</sup> c  
 Phase Noise ..... >75 dB-Hz, 1 kHz from Carrier

Alarm Relay..... Form-C  
 External LNB Power... +18 VDC, switchable In-Out, .500ma,max.  
 CDS (**Optional**)..... DB-9, RS-232  
 ..... (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 Jack connector  
**Physical Characteristics**  
 Size ..... 1.75"H X 16.00"D X 19.00"W  
 Weight..... 8 lb. (3.63 kg)  
 Primary Power..... 100 - 260 VAC 47 - 63Hz, 1.2 A  
 ..... AutoSensing

### 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 (Optional)

The streaming option associated with the ASC300 series of beacon tracking receivers provides a continuous, data stream running at 9600 baud that contains signal strength level indication in millivolts 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.

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## ASC300 Series Beacon Receiver Ethernet Specifications

### **Ethernet Interface**

Number of Ports 1  
Speed 10/100 Mbps, auto MDI/MDIX  
Connector (s) 8-pin RJ45  
Magnetic Isolation Protection 1.5 KV built-in

### **Serial Communication Parameters**

Data Bits 5, 6, 7, 8  
Stop Bits 1, 1.5, 2  
Parity None, Even, Odd, Space, Mark  
Flow Control RTS/CTS and DTR/DSR, XON/XOFF  
Baud Rate 110 bps to 230.4 Kbp

### **Software**

Network Protocols ICMP, IP, TCP, UDP, DHCP, BOOTP, Telnet, DNS, SNMP, HTTP, SMTP

### **Configuration Options**

Web Console, Serial Console, Telnet Console,  
Windows Utility Windows Real COM  
Windows 7/2008/Vista/2003/XP x86/x64 Windows 2000/NT/ME/98/95 XP  
Embedded Embedded CE 5.0/6.0

### **Fixed TTY Drivers**

SCO Unix, SCO OpenServer, UnixWare 7, UnixWare 2.1, SVR 4.2, QNX 4.25, QNX 6, Solaris 10, FreeBSD, AIX 5.x, HP-UX 11i

### **Environmental Limits**

Operating Temperature 0 to 55°C (32 to 131°F)  
Storage Temperature -40 to 85°C (-40 to 185°F)  
Ambient Relative Humidity 5 to 95% (non-condensing)

### **Standards and Certifications**

Safety UL 60950-1, EN 60950-1  
EMC CE, FCC  
EMI EN 55022 Class A, FCC Part 15 Subpart B Class A  
EMS EN 55024

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