

# Model ASC302LE (930 MHz to 2300 MHz) Dual Beacon Receiver

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### Functional Description

The Model **ASC302LE Beacon Receiver** is a dual beacon receiver that is comprised of two totally independent units in a single rack mount space. The **ASC302LE** 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 proprietary “**SWEEP TRAC**” option provide signal tracking capability for higher drift LNB’s. The applications for the **ASC302LE** are for antenna step track controlling and uplink power control system.

### Systems Specifications Per Unit

Input Frequency.....930 MHz to 2300 MHz  
 Pre-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  
 C/N<sub>0</sub> ..... ≤45 dB-Hz for capture  
 AFC (**Note 1**) ..... ±30kHz  
 Image Rejection.....>40 dB, 930 to 2300MHz  
 Input Impedance (**Note 2**) ..... 75 Ohm  
 Input Connector (**Note 2**)..... Type-F, Female  
 Output Impedance ..... 100 Ohm, single ended  
 Output Connector ..... Terminal plug and BNC Female  
 Tracking Gradient ..... 0.5 V/dB  
 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 ..... <1 ppm, 0°c to +50° c  
 Frequency Reference ..... 10 MHz (Internal)  
 Phase Noise ..... >75 dB-Hz, 1 kHz from Carrier  
 Alarms ..... Unit Lock  
 Alarm Relay ..... Form-C

External LNB Power .....+18 VDC, Switched,In/Out,500 ma,max  
 Front Panel Display .....Vacuum Fluorescent  
 M&C ..... RS-232 or RS-422/485 switched 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 8.50”W  
 Weight .....4 lb. (1.82 kg)  
 Primary Power.....90 - 264 VAC 47 - 63Hz, 1.4 A AutoSensing

### Environmental Specifications:

Operating Temperature.....0°c to +50° c  
 Storage Temperature .....40°c to +70° c  
 Humidity .....95% RH@ 40° c

### Options

**Note 1:** Up to ± 100kHz with Proprietary “sweep trac” automatic frequency capture. Customer specified tracking range. Less than 6 sec. Capture time at ± 100kHz tracking.

**Note 2:** 50 Ohm N or SMA Type, available. Call or Email Factory

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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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