

# Model ASC300Ku-I (Internal BDC) Beacon Receiver

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## Functional Description

The Model **ASC300Ku-I Beacon Receiver** is a high performance self contained 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 **ASC300Ku-I will tune over any of the three primary Ku band satellites (10.7-11.70 GHz, 11.70-12.75 GHz) by utilizing an internal block down converter. The frequency band must be customer specified. The applications for the ASC300 Ku-I are for antenna tracking controllers and uplink power control system.**

## Systems Specifications

Input Frequency ..... Customer Specified  
 Internal Block Converter (See below bands)  
 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  
 AFC .....  $\pm 30$  kHz  
 Threshold..... <45 dB-Hz (C/N<sub>0</sub>) for acquisition  
 Impedance..... 50 Ohm  
 Input Connector..... Type-N, Female (**SMA 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

Frequency Reference..... 10 MHz (Internal)  
 Phase Noise..... >75 dBc-Hz, 1 kHz from Carrier  
 Alarms ..... Unit Lock  
 Alarm Relay..... Form-C  
 External LNB Power..... None  
 CDS (**Optional**)..... DB-9, RS-232  
 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 Connector

### Physical Characteristics

Size ..... 1.75"H X 16.00"D X 19.00"W  
 Weight..... 9 lb. (4.09 kg)  
 Primary Power..... 90 - 264 VAC 47 - 63Hz, 1.4 A  
 ..... Auto-Sensing

### 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

**Band 1 (10.7 to 11.70 GHz)**  
**Band 2 (11.70 to 12.75 GHz)**

### \* CDS Continuous Digital Streaming

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.

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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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