



Model ASC300LW (930 MHz to 2300 MHz) Beacon Receiver

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Functional Description

The Model **ASC300-LW 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-LW are for antenna step track controlling and uplink power control system. Also can be used on telemetry beacons.

Systems Specifications

Input Frequency..... 930 MHz to 2300 MHz
Warm up from cold start..... Within 1 dB in < 2 minutes
Temperature Stability..... ± 1.5 dB, 0 to 50 deg C
 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/N₀ ≤45 dB-Hz for capture
 AFC ±30 kHz
 Image Rejection..... >40 dB, 930 to 2300MHz
 Input Impedance (**Note 1**) 50 Ohm
 Input Connector (**Note 1**)..... Type-N, 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, 0⁰c to +50⁰c
 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
 +15 VDC (**Optional**)
 CDS (**Optional**)..... DB-9, RS-232
 Front Panel Display..... Vacuum Fluorescent
 M&CRS-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

Size1.75"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.....0⁰c to +50⁰c
 Storage Temperature.....40⁰c to +70⁰c
 Humidity95% RH@ 40⁰c

Options

Note 1: 75 Ohm F female or 50 Ohm SMA female are available.
 Call or Email Factory

(Optional) 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. 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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