



Model ASC 300-LW (930 MHz to 2300 MHz) Beacon Receiver

Quality Products @ Reasonable Prices



Functional Description:

The Model **ASC300LW 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 proprietary “**SWEEP TRAC**” option provide signal tracking capability for higher drift LNB’s. The applications for the ASC300-LW are for antenna step track controlling and uplink power control system.

Systems Specifications:

Input Frequency930 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/N₀ <45 dB-Hz for capture
 AFC (Note 1)..... ± 30 kHz
 Image Rejection.....>40 dB, 950 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 Gradient0.5 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^oc to +50^o c
 Frequency Reference10 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
 CDS (Optional) RS-232 or RS-422, DB-9 Female Connector
 Front Panel Display Vacuum Fluorescent
 M&C RS-232 or RS-422/485 switched on rear
 M&C Connector DB-9, Female on rear
 Ethernet 10/100 Mbps Fast Ethernet (Optional)
 Ethernet connector RJ-45 on rear

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
 Humidity95% RH@ 40^o c

Notes:

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

Ethernet Option: Not installed on STD units. Must be installed at factory.
 Software support:Windows 98/2000/XP/2003/Vista/7 32bit & 64bit
 Protocol:TCP/IP,UDP,HTTP,SNMP,ARP,Telnet,ICMP,BOOTP,DHCP,SMTP

CDS, Continuous Digital Streaming Option:

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 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 or RS-422, interface connector on the rear of the unit is specifically dedicated for this option.

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