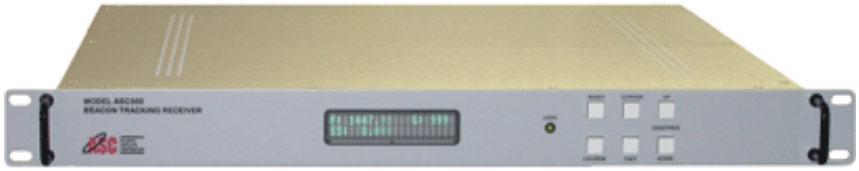
Model ASC 300C
Beacon Receiver

Quality Products @ Reasonable Prices



Functional Description

The Model **ASC300C 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 **ASC300C**are for antenna tracking controllers and uplink power control system. Note: The model ASC300C can be offered with external BDC in-stead of an internal BDC.

Systems Specifications

Input Frequency..... 3400.000 to 4200.000 MHz
.....**Internal Block Converter**
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 .....± 30 kHz
Threshold..... <45 dB-Hz (C/N_0) for acquisition
Input Impedance ..... 50 Ohm
Input Connector .....Type-N, Female
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 60 dB, 0.5 dB Steps
Frequency Stability .....<1 ppm, 0^0 c to $+50^0$ c
Frequency Reference .....10 MHz (Internal)
Phase Noise .....>75 dB-Hz, 1 kHz from Carrier

Alarms ..... Unit Lock
Alarm Relay ..... Form-C
External Power .....None (Internal BDC)
CDS **(Optional)** DB-9, RS-232
DB9 interface connector .....(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 Connector

Physical Characteristics

Size.....1.75"H X 16.00"D X 19.00"W
Weight ..... 9 lb. (4.08 kg)
Primary Power ..... 90 - 264 VAC 47 - 63Hz
.....Auto-Sensing

Environmental Specifications:

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

* 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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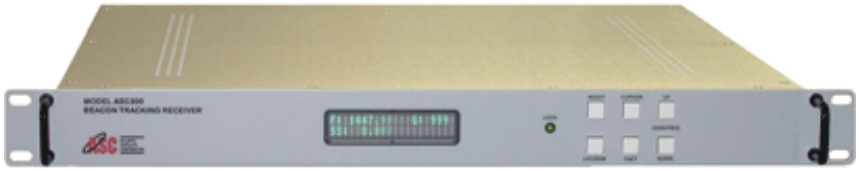
Model ASC 300-CE Extended C-Band Beacon Receiver

Quality Products @ Reasonable Prices



Functional Description

The Model **ASC300-CE Extended C-Band 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-CE** are for antenna tracking controllers and uplink power control system.

Systems Specifications

Input Frequency ..... 4000.000 to 4800.000 MHz
.....**Internal Block Converter**
Pre-detection Bandwidth.....50 kHz
Input Level.....- 85 dBm, min.; - 25 dBm max.
.....For full tracking range capability
Minimum Input Level ..... -100 dBm
Minimum Input Level for Lock ..... -105 dBm
Frequency Tuning ..... 10 kHz Steps
Frequency Adjust .....Front Panel or Remotely
AFC ..... ± 200 kHz
Threshold ..... <45 dB-Hz (C/N_0) for acquisition
Input Impedance .....50 Ohm
Input Connector.....Type-N, Female
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 60 dB, 0.5 dB Steps
Frequency Stability.....<1 ppm, 0^0 c to $+50^0$ c
Frequency Reference.....10 MHz (Internal)
Phase Noise.....>75 dB-Hz, 1 kHz from Carrier
Telemetry Side Band Rejection.... <50kHz from carrier
Alarms.....Unit Lock
Alarm Relay .....Form-C
External Power..... None (Internal BDC)
Continuous Digital Streaming.RS-232 or RS-422
DB9 interface connector..(optional) See Below *
Front Panel Display.....Vacuum Fluorescent
M&C ..... RS-232 or RS-422/485 Switchable
.....on rear panel
Ethernet 10/100 Base T (**Optional**)
M&C Connector.....DB-9, Female
.....RJ-45 Connector

Physical Characteristics

Size ..... 1.75"H X 16.00"D X 19.00"W
Weight.....9 lb. (4.08 kg)
Primary Power.....90 - 264 VAC 47 - 63Hz
..... Auto-Sensing

Environmental Specifications:

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

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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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