ASC ATLANTIC SATELLITE CORPORATION

Model ASC 300-X (Internal BDC) Beacon Tracking Receiver

Quality Products @ Reasonable Prices

Functional Description:

The Model ASC300 X Beacon Tracking 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 ASC300 X will tune over any X band satellite (7.25 - 7.75 GHz) by utilizing an internal block down converter. The applications for the ASC300 X are for antenna tracking controllers and uplink power control system.

Systems Specifications:

Input Frequency ....(7.25 to 7.75 GHz)
....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...$\pm$ 30 kHz
Threshold......45 dB-Hz (C/N_0) for acquisition Input
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 .... 60 dB, Linear
Frequency Stability .... <1 ppm, 0^0c 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
Front Panel Display ....Vacuum Fluorescent
M&C .... RS-232/422/485 Switchable on rear panel
M&C Connector....................DB-9, Female on rear
Ethernet 10/100 Base T...............................(Optional)
Ethernet Connector ....RJ-45 on rear

Physical Characteristics:
Size...........................1.75"H X 16.00"D X 19.00"W
Weight...12 lb. (5.44 kg)
Primary Power...............90 - 264 VAC 47 - 63Hz, 1.4 A
                                               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

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.

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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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