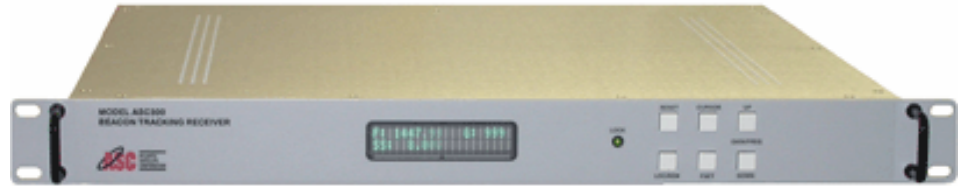


Model ASC 300-X (Internal BDC) Beacon Tracking Receiver

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.....25 kHz
Input Level.....-80 dBm, min.; -50 dBm max.
For full tracking range capability
Frequency Tuning.....10 kHz Steps
Frequency Adjust.....Front Panel or Remotely
AFC.....± 12.5 kHz
Threshold.....<45 dB-Hz (C/N₀) 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.....30 dB, Linear
Frequency Stability.....<1 ppm, 0⁰c to +50⁰ c

System Level Adjust.....30 dB, Linear
Frequency Stability.....<1 ppm, 0⁰c to +50⁰ c
Frequency Reference.....10 MHz (Internal)
Phase Noise.....>75 dB-Hz, 1 kHz from Carrier
Alarms.....Unit Lock
Alarm Relay.....Form-C
External LNB Power.....None
Continuous Digital Streaming (CDS).....DB-9, RS-232
(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.....12 lb. (5.44 kg)
Primary Power.....90 - 264 VAC 47 - 63Hz, 1.4 A
Auto-Sensing

Environmental Specifications:

Operating Temperature.....0⁰c to +50⁰ c
Storage Temperature.....-40⁰c to +70⁰ c
Humidity.....95% RH@ 40⁰ c

*** CDS Continuous Digital Streaming**

The streaming option associated with the ASC300 series of beacon tracking receivers provides a continuous, two byte, data stream running at 2400 baud that contains twelve 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.