

Model ASC300KuE-T Extended Tri-band Beacon Receiver

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Functional Description

The Model **ASC300KuE-T Extended Tri-band Beacon 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 **ASC300KuE-T will tune over the three primary Ku band satellites (10.7-11.70 GHz, 11.70-12.20 GHz, 12.25-12.75 GHz) by utilizing internal block down converters.** The applications for the **ASC300KuE-T** are for antenna tracking controllers and uplink power control system.

Systems Specifications

Input Frequency..... 10.7 to 12.75 Ghz
 Internal Block Converter
 Pre-detection Bandwidth60 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/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 60 dB, Linear
 Frequency Stability <1 ppm, 0^oc to +50^o c
 Frequency Reference 10 MHz (Internal)

Phase Noise >75 dB-Hz, 1 kHz from Carrier
 Alarms Unit Lock, LNB Power
 Alarm Relay Form-C
 External LNB Power None
 CDS (**Optional**) DB-9, RS-232
 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 14 lb. (6.35 kg)
 Primary Power 90 - 264 VAC 47 - 63Hz, 1.4 A
 Auto-Sensing

Environmental Specifications:

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

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CDS Continuous Digital Streaming (Optional)

The streaming option associated with the ASC300 series of beacon receivers provides a continuous, two byte, data stream running at 9600 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, interface connector on the rear of the unit is specifically dedicated for this option.