

Model ASC 300KuET-Tri-band Extended Beacon Receiver

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Functional Description:

The Model ASC300KuET-Triband Extended 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 ASC300KuET 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 ASC300 Ku-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 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/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
 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, LNB Power
 Alarm Relay Form-C
 External LNB Power None
 CDS RS-232 or RS-422 (**Optional**)
 CDS interface connector DB-9
 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**)
 Ethernet 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 0⁰c to +50⁰ c
 Storage Temperature -40⁰c to +70⁰ c
 Humidity —95% RH @ 40⁰ 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

CDS Continuous Digital Streaming Option

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.

