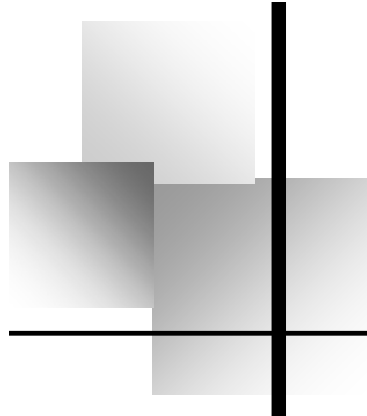


ASC300KU1-E
ASC300KU2-E



**Model ASC 300Ku E (External BDC)
Beacon Tracking Receiver**

Quality Products @ Reasonable Prices

**Model ASC300Ku1-E (10.7 to 11.70 GHz)
Model ASC300Ku2-E (11.70 to 12.75 GHz)**



Functional Description:

The Model ASC300Ku-E Series Beacon Receivers are high performance units that are 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 Ku-E will tune over any of the three primary Ku band satellites (10.7-11.70 GHz, 11.70-12.20 GHz, 12.25-12.75 GHz) by utilizing an external block down converter. The frequency band must be customer specified. The applications for the models ASC300Ku1-E and ASC300Ku2-E are for antenna tracking controllers and uplink power control system.

Systems Specifications:

Input Frequency Customer Specified
 External 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 30kHz
 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 0 to 60 dB, 0.5 dB Steps
 Frequency Stability <1 ppm, 0⁰c to +50⁰c
 Frequency Reference 10 MHz (Internal)

Phase Noise >75 dBc-Hz, 1 kHz from Carrier
 Alarms Unit Lock
 Alarm Relay Form-C
 External LNB Power +24 VDC, switchable In-Out
 500 ma Max.
 CDS (**Optional**) RS-232 or RS-422
 CDS Connector DB9 Female on rear
 Front Panel Display Vacuum Fluorescent
 M&C RS-232 or RS-422/485 Switchable
 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 8 lb. (3.63 kg)
 Primary Power 90 - 264 VAC 47 - 63Hz, 1.4 A
 Auto-Sensing

Environmental Specifications:

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

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 tracking 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.

