

Model ASC300Ku I (Internal BDC) Beacon Receiver

Quality Products @ Reasonable Prices

Model: ASC300Ku1-I (10.7 to 11.70 GHz)
Model: ASC300Ku2-I (11.70 to 12.75 GHz)



Functional Description:

The Model ASC300Ku I series Beacon Receivers are high performance self contained 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 ASC300Ku I will tune over any of the three primary Ku band satellites (10.7-11.70 GHz or 11.70-12.75 GHz) by utilizing an internal block down converter. The frequency band must be customer specified. The applications for the models ASC300Ku1-I and ASC300Ku2-I are for antenna tracking controllers and uplink power control system.

Systems Specifications:

Input Frequency.....Customer Specified Model Above
..... 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..... ± 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 0 to 60dB, 0.5dB Steps
Frequency Stability <1 ppm, 0^oc to +50^o c

Frequency Reference 10 MHz (Internal)
Phase Noise >75 dBc-Hz, 1 kHz from Carrier
Alarms Unit Lock
Alarm Relay Form-C
External LNB Power None
CDS (**Optional**) RS-232 or RS-422,
..... DB9 Female connector on rear
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 Mbps Fast Ethernet (**Optional**)
Ethernet Connector RJ-45 on rear

Physical Characteristics:

Size 1.75"H X 16.00"D X 19.00"W
Weight 9 lb. (4.09 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^o c to +70^o c
Humidity 95% RH @ 40^o c

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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 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.