

Model ASC300Ku-E (External BDC) Beacon Tracking Receiver

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Functional Description

The Model **ASC300Ku-E Beacon Tracking Receiver** is a high performance 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 **ASC300Ku-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 ASC300Ku-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 ± 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 60 dB, 0.5 dB 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..... +24 VDC, switchable In-Out
 500 ma Max.
 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 8 lb. (3.63 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

Band 1 (10.7 to 11.70 GHz)
Band 2 (11.70 to 12.75 GHz)

CDS Continuous Digital Streaming (Optional)

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.

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ASC300 Series Beacon Receiver Ethernet Specifications

Ethernet Interface

Number of Ports 1
Speed 10/100 Mbps, auto MDI/MDIX
Connector (s) 8-pin RJ45
Magnetic Isolation Protection 1.5 KV built-in

Serial Communication Parameters

Data Bits 5, 6, 7, 8
Stop Bits 1, 1.5, 2
Parity None, Even, Odd, Space, Mark
Flow Control RTS/CTS and DTR/DSR, XON/XOFF
Baud Rate 110 bps to 230.4 Kbp

Software

Network Protocols ICMP, IP, TCP, UDP, DHCP, BOOTP, Telnet, DNS, SNMP, HTTP, SMTP

Configuration Options

Web Console, Serial Console, Telnet Console,
Windows Utility Windows Real COM
Windows 7/2008/Vista/2003/XP x86/x64 Windows 2000/NT/ME/98/95 XP
Embedded Embedded CE 5.0/6.0

Fixed TTY Drivers

SCO Unix, SCO OpenServer, UnixWare 7, UnixWare 2.1, SVR 4.2, QNX 4.25, QNX 6, Solaris 10, FreeBSD, AIX 5.x, HP-UX 11i

Environmental Limits

Operating Temperature 0 to 55°C (32 to 131°F)
Storage Temperature -40 to 85°C (-40 to 185°F)
Ambient Relative Humidity 5 to 95% (non-condensing)

Standards and Certifications

Safety UL 60950-1, EN 60950-1
EMC CE, FCC
EMI EN 55022 Class A, FCC Part 15 Subpart B Class A
EMS EN 55024

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