

Model ASC302LE (930 MHz to 2300 MHz) Dual Beacon Receiver

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Functional Description

The Model **ASC302LE Beacon Receiver** is a dual beacon receiver that is comprised of two totally independent units in a single rack mount space. The **ASC302LE** 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 proprietary “**SWEEP TRAC**” option provide signal tracking capability for higher drift LNB’s. The applications for the **ASC302LE** are for antenna step track controlling and uplink power control system.

Systems Specifications Per Unit

Input Frequency.....930 MHz to 2300 MHz
 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
 C/N₀ ≤45 dB-Hz for capture
 AFC (**Note 1**) ±30kHz
 Image Rejection.....>40 dB, 930 to 2300MHz
 Input Impedance (**Note 2**) 75 Ohm
 Input Connector (**Note 2**)..... Type-F, Female
 Output Impedance 100 Ohm, single ended
 Output Connector Terminal plug and BNC Female
 Tracking Gradient 0.5 V/dB
 Tracking Response..... 0 to +10 VDC
 for a 20 dB input level change
 System Level Range 60 dB
 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 dB-Hz, 1 kHz from Carrier
 Alarms Unit Lock
 Alarm Relay.....Form-C

External LNB Power+18 VDC, Switched, In/Out, 500 ma, max
 Front Panel Display Vacuum Fluorescent
 M&C RS-232 or RS-422/485 switched on rear panel
 M&C Connector..... DB-9, Female
 Ethernet 10/100 Base T (**Optional**) RJ-45 Jack connector

Physical Characteristics

Size 1.75”H X 16.00”D X 8.50”W
 Weight 4 lb. (1.82 kg)
 Primary Power..... 90 - 264 VAC 47 - 63Hz, 1.4 A AutoSensing

Environmental Specifications:

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

Options

Note 1: Up to ± 100kHz with Proprietary “sweep trac” automatic frequency capture. Customer specified tracking range. Less than 6 sec. Capture time at ± 100kHz tracking.

Note 2: 50 Ohm N or SMA Type, available. Call or Email Factory

5241 Cleveland St. Suite 112
 Virginia Beach, Virginia 23462

Phone: 757-318-3500
 Fax: 757-318-7020
 Email: sales@atlanticsat.com
www.atlanticsat.com
www.beaconreceiver.net