



Probecom microwave

# 3430-L

## L-Band Beacon Tracking Receiver

*A tracking receiver for antenna step tracking and automatic uplink power control*

The Model 3430-L Version 4 is the latest release of our reliable series of 3430 Beacon Receivers. With Version 4 firmware we now offer the full L-band range of **930 to 2300 MHz**, Digital Level reference setting, Ethernet connectivity with M&C control interface, and power up temperature compensation for rapid signal acquisition. Frequency selection on 10 kHz steps may be accomplished from the front panel or via remote control. Pre-detection noise bandwidth of 50 kHz (or factory option of 25 kHz) facilitates accurate tracking at very low C/N levels.

- ★ Wide bandwidth, 930 to 2300 MHz standard
- ★ Digital level reference setting, -40 to -100 dBm on 0.5 dB steps
- ★ Ethernet connectivity with M&C control interface
- ★ **NEW Version 2.0** M&C control interface allows for remote monitoring from one or multiple location
- ★ RS-232/422/485 and Ethernet all Standard
- ★ Temperature stabilization compensation.

The output of the Beacon Receiver is a DC voltage proportional to the input signal level to facilitate both antenna tracking control and automatic power control. A Loss of Carrier indicator is provided in the event the tracking signal is lost. Form "C" relay contacts provide an external Loss of Carrier Alarm. A front panel VFD or GUI (via your computer) displays operating frequency, relative signal level, carrier lock or alarm, and input level.

### Specifications

Input Frequency .....	930 - 2300 MHz
Input Level .....	-40 to -100 dBm typical
Level Adjust .....	Digital, 0.5 dB steps
Level Accuracy .....	±0.4 dB per step
	..... ±4 dB over entire range
Tracking Slope .....	0.5 V/dB
Tracking Linearity .....	±0.25 dB
Frequency Selection .....	10 kHz steps
Min. input level for Lock .....	-110 dBm
Input Connector .....	Type "N" Female, 50 ohm*
Threshold .....	4 dB C/N for acquisition
	< 1 dB C/N for carrier lock
Tracking Response .....	0 to +10 VDC over 20 dB input range standard
	other ranges optional****
Alarms .....	Form-C relay contacts
AFC .....	±25 kHz**
Noise Bandwidth .....	50 kHz
M&C .....	RS-232 or RS-422/485
	Ethernet 10/100 Base T
..... Continuous Data Streaming option/ streaming signal strength output via a dedicated RS-232 DB 9 connector	
M&C Connector .....	DB-9 Female & RJ 45 Connector
<b>MECHANICAL:</b>	
Output Connector .....	Modular socket & plug
Dimensions .....	1 RU, 19" x 16" x 1.75"
<b>POWER:</b>	
Prime Input Power .....	90-260 VAC, 47-63 Hz,
	auto-sensing, 45 Watts max
LNB Power .....	+24 Volts @ 1 Amp available on center conductor
	Selectable In/Out****

- Other input connectors available please contact us
- \*\* Other AFC options available please contact Probecom
- \*\*\* Other power options available please contact Probecom
- \*\*\*\* Other ranges available please contact Probecom

## Probecom Microwave Technology Co.,Ltd

ADD:20<sup>th</sup> Floor,Building C,Jin Qiao International Plaza,50 # Keji Road,Hi-Tech Development Zone, Xi'An

Tel: 0086-29-83115011/3115022 / Fax:0086-29-83115033 E-Mail:sales@probecom.cn

Copyright©2008 Probecom



Probecom **microwave**

# 3430-L

L-Band Beacon Tracking Receiver

## Valid Options

### AFC and Filtering

- 0 Standard AFC and Standard 0.4 Hz output smoothing filter
- A No AFC – Use for tracking Wide Data Carriers. Standard 0.4 Hz output smoothing filter
- S No AFC and No 0.4 Hz output smoothing filter.
- T No 0.4 Hz output smoothing filter. Standard AFC

### Bandwidth

- 0 50 kHz pre-detection bandwidth
- 5 25 kHz pre-detection bandwidth

### Input Connector on Rear of BTR

- N 50 ohm N female connector
- B 50 ohm BNC female connector
- Q 50 ohm TNC female connector
- S 50 ohm SMA female connector

### M&C

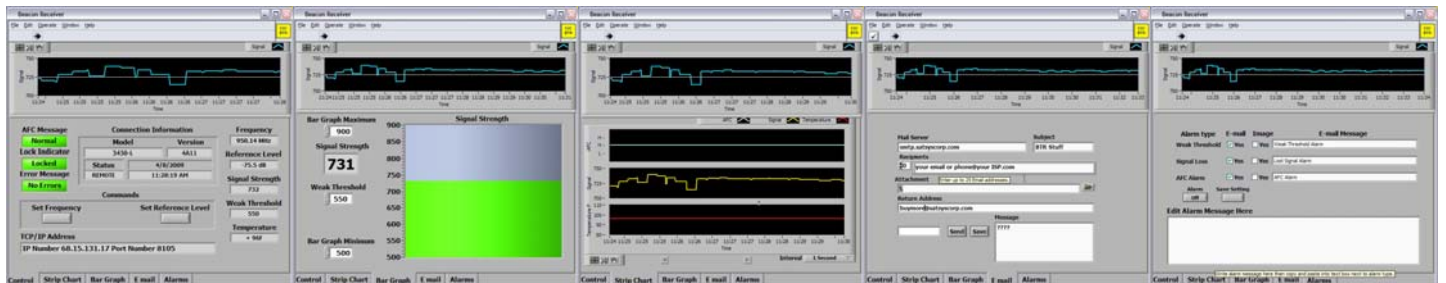
- RS-232
- RS-422/485
- Ethernet 10/100 Base T with Graphical User Interface
- Optional Continuous Data Streaming



**Part Numbering** Typical part number 3430-L00N

Base Model	BAND	Frequency Range	AFC & Filtering	Band-width	Input Connector
3430	L	930 to 2300 MHz	0, A, S, or T	0 or 5	N, B, Q, or S

Probecom have the new control GUI version **2.0** for our Beacon Receiver Products. Enhanced control features and additional monitoring tools are included along with strip charting for signal strength, AFC, and temperature. Version 2.0 also includes a new event-triggered alarm feature that allows for email notification to your laptop or cell phone. Alarms are triggered via signal strength, loss of signal, and AFC conditions.



Add:20th Floor, Building C , Jin Qiao International Plaza, 50# Keji Road , Hi-Tech Development Zone, Xi'an China  
 Phone +86 29 83115011/22 Fax +86 29 83115033 <http://www.probecom.cn> [sales@sprobecom.cn](mailto:sales@sprobecom.cn)