

Full Global Ku-Band Beacon Tracking Receiver

VERSION 4



A Tracking Receiver for Antenna Step Tracking and Automatic Uplink Power Control

The Model 3430-KW Version 4 is the latest release of our reliable series of 3430 Beacon Receivers. The Model 3430-KW features an input of **10.7-12.75 GHz**, 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.

- 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 locations
- 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 SSC GUI (via your computer) displays operating frequency, relative signal level, carrier lock or alarm, and input level.

Specifications:		
Input Frequency	10.7 - 12.75 GHz	
Input Level	-40 to -90 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	
Ku-to-L Band Conversion	Internal	
Min. Input Level for Lock	-105 dBm	
Input Connector	Type "SMA" 50 Ohm Female	
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 ⁽²⁾	
Alarms	Form-C relay contacts	
AFC	±25 kHz ⁽³⁾	
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	
MECHANICAL:		
Output Connector	Modular Socket & Plug (for ACU and UPC)	
Dimensions	1 RU, 19" x 16" x 1.75"	
POWER:		
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 (4)	

For additional options, contact customer service:
(1) Other Input Connectors (2) Other Ranges Available
(3) Other AFC Options (4) Other Power Options



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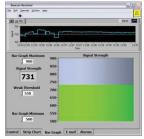


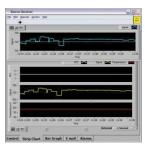
Features & Options

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.











Part Numbering:	Typical part number 3430-KW000S
BASE MODEL	3430
BAND	KW
CONVERSION TYPE	0
FREQUENCY RANGE*	10.7 - 12.75 GHz
AFC & FILTERING	0, A, S, or T
BANDWIDTH	0 or 5
INPUT CONNECTOR	N or S

*Other frequency ranges are available. Please see www.radeuslabs.com for more information.

Valid Options:	
AFC & FILTERING:	
О	Standard AFC. Standard 0.4 Hz output smoothing filter.
А	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.
т	Standard AFC. No 0.4 Hz output smoothing filter.
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
s	50 ohm SMA female connector
M&C:	
RS-232	
RS-422/485	
Ethernet 10/100 Base T	with SSC graphical user interface
Optional	Continuous data streaming