



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

The Model 3430-KuD Version 4 is the latest release of our reliable series of 3430 Beacon Receivers. The Model 3430-KuD features an input of **10.7- 11.7 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 -11.7 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
Input Connector	Type "N" 50 Ohm Female
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 "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 & 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
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***

* Other input connectors available please contact SSC
 *** Other power options available please contact SSC

** Other AFC options available please contact SSC
 **** Other ranges available please contact SSC



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Model 3430-KuD

Ku-Band Beacon Tracking Receiver

Version 4

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.
- 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



Part Numbering Typical part number 3430-KuD000N

Base Model	BAND	Conversion Type	Frequency Range	AFC & Filtering	Band-width	Input Connector
3430	KuD	0	10.7 -11.7 GHz	0, A, S, or T	0 or 5	N or S

Other Frequency Ranges are available.

Please see <http://www.satsyscorp.com> for more information.

Satellite Systems announces the new control GUI version 2.0 for our Beacon Receiver Product line. 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.

