



MODEL **3430M-L**

Modular L-Band Beacon  
Tracking Receiver

VERSION 4



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

The Model 3430M-L Version 5M is the latest release of our reliable series of 3430 Beacon Receivers. The Model 3430M-L is packaged in a small convenient modular enclosure to incorporate with existing architecture/systems where a full size receiver is not required but full size performance is required. The Model 3430M-L provides DC power input, digital reference level setting, ethernet connectivity for monitor and control, and selectable pre-detection bandwidths for rapid signal acquisition. Frequency selection and gain selection on 10 kHz steps may be accomplished via remote control.

- Wide bandwidth, 920 - 2200 MHz standard
- Digital reference level setting, -40 to -100 dBm on 0.5 dB steps
- Ethernet connectivity with Monitor & Control interface

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. M&C provides real time updates on operating frequency, relative signal level, carrier lock or alarm, and input level.

### Specifications:

<b>Input Frequency</b>	920 - 2200 MHz
<b>Input Level</b>	-40 to -100 dBm typical
<b>Level Adjust</b>	Digital, 0.5 dB steps
<b>Level Accuracy</b>	±0.4 dB per step ±4 dB over entire range
<b>Tracking Slope</b>	0.25 V/dB
<b>Tracking Linearity</b>	±0.25 dB
<b>Frequency Selection</b>	10 kHz steps
<b>Min. Input Level for Lock</b>	-110 dBm
<b>Input Connector</b>	Type "SMA" Female, 50 ohm <sup>(1)</sup>
<b>Acquisition Threshold</b>	45 to 35 dB-Hz ≥ 4 dB C/N in the tuner bandwidth (bandwidth dependent)
<b>Carrier Tracking Threshold</b>	40 to 30 dB-Hz ≥ 1 dB C/N in the tuner bandwidth (bandwidth dependent)
<b>Tracking Response</b>	0 to +5 VDC over 20 dB input range standard
<b>Alarms</b>	Front Panel Indicators and Via M&C
<b>AFC</b>	±25 kHz / ± 5 KHz selectable
<b>Noise Bandwidth</b>	50 kHz
<b>M&amp;C</b>	Ethernet 10/100 Base T
<b>M&amp;C Connector</b>	RJ-45 Connector

### MECHANICAL:

<b>Output Connector</b>	BNC Type Connector
<b>Dimensions</b>	6" x 6" x 1.75"

### POWER:

<b>Prime Input Power</b>	24-36 VDC
<b>LNB Power</b>	+24 Volts @ 1 Amp Available on Center Conductor

For additional options, contact customer service:  
(1) Other Input Connectors Available

Contact Us

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