



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:

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

MECHANICAL:

Output Connector	BNC Type Connector
Dimensions	6" x 6" x 1.75"

POWER:

Prime Input Power	24-36 VDC
LNB Power	+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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