



## EN1941-60XHR One-Way Binary RF Module without Header

The Inovonics one-way binary RF module without header provides reliable low-cost, low-power wireless communication for integrators, making virtually any binary switch device wireless. It is a universal one way RF module with two alarm input pins, allowing the use of dual inputs, and can be used for any applications such as call notification and any switch or alarm conditions that need to be transmitted wirelessly. The EN1941-60XHR one-way binary RF module without header sends check-in messages every 60 minutes to allow for use in a UL 2560 certified system.

### Product Features

Easy to integrate

Low current draw

Excludes eight-pin header, allowing for alternate OEM integration

### Product Specifications

Dimensions:	2.525" x 1.3" x .5"
Power requirements:	Requires an external power supply (Vcc) of 2.4 to 5.5 volts; voltage must be sustained at 2.4 volts or above and supply 100 milliamps during the transmit cycle
Current draw:	Assuming check-in messages every sixty minutes and infrequent alarm messages (one per day, on average), the average current draw is 1.67 uA; peak current draw while transmitting is less than 100 mA; one alarm/restore cycle per hour results in about 16.67 uA increase in average current
Input requirements:	
Open:	When an active source (open collector or dry contact) is used to drive the alarm or tamper input, the voltage should be between 0.75xVcc and Vcc; a passive input should have an impedance of greater than 5.1k ohm between the input and ground
Closed:	When an active source is used, the voltage should be less than 0.25xVcc; a passive input should have an impedance of less than 240 ohm
LED requirements:	The LED output is an active output from the microprocessor, with a 1k series resistor to limit current draw; default state is low, and the LED pin is pulled high during transmit
Operating environment:	
Temperature:	-4 to 140°F
Humidity:	Up to 90% (non-condensing)

Market:	North America, Australia, New Zealand
EchoStream® frequency:	902-928 MHz, frequency hopping spread spectrum
Check-in time frequency:	60 minutes
Regulatory compliance:	FCC, RCM, RoHS, UL 2560 <sup>1</sup>

**Reference Materials (available at [www.inovonics.com](http://www.inovonics.com))**

**EN1941-60 EchoStream® Activity Sensor Installation Instructions**

- The range and performance of any wireless product depends on the structure and environment in which it operates.
  - Continual enhancements to our products may cause specifications to change without notice.
  - Patents: 7,154,866; 7,554,932; 7,746,804; others pending.
- <sup>1</sup> Partners must achieve emergency call system certification from a nationally recognized testing laboratory to claim compliance with UL 2560.

