



RF Modules

Wireless integration has never been easier. Inovonics EchoStream® RF modules are designed to easily interface with virtually any control, command, or monitoring application. Ideal for security systems, building automation systems, and industrial applications, these powerful and reliable modules simplify the integration process to take advantage of the EchoStream wireless network. FCC and IC approved.

EN1941 RF module

The EN1941 is a universal one way RF module with two alarm input pins, allowing the use of dual inputs. This module can be used for any applications such as call notification and any switch or alarm conditions that need to be transmitted wirelessly.

EN1941XS Serial RF module

The EN1941XS is a universal one way RF module that allows for the transmission of up to 50 bytes of user defined serial data. This module connects to a serial interface to transmit variable data such as temperature, humidity, pressure, or liquid levels to a head end application controller.

Why Inovonics Wireless is Best

The Inovonics Commercial Mesh Network has been specifically developed for commercial applications to provide the most cost-effective solution for a wide range of applications, while setting new standards for performance and reliability in a wireless sensor network.

Reliability

Inovonics EchoStream 900MHz radio utilizes a unique frequency hopping, spread spectrum technology to meet the demands of an increasingly cluttered wireless world.

Flexibility

The flexibility of wireless is a necessity in today's dynamic commercial environments. The self-configuring EchoStream Commercial Mesh Network allows you to adapt to changing floor plans and requirements in a matter of minutes. New sensors can be added to the network as fast as they can be mounted.

Scalability

The EchoStream Commercial Mesh Network's backbone of intelligent repeaters can extend coverage to thousands of sensors across entire commercial campuses.

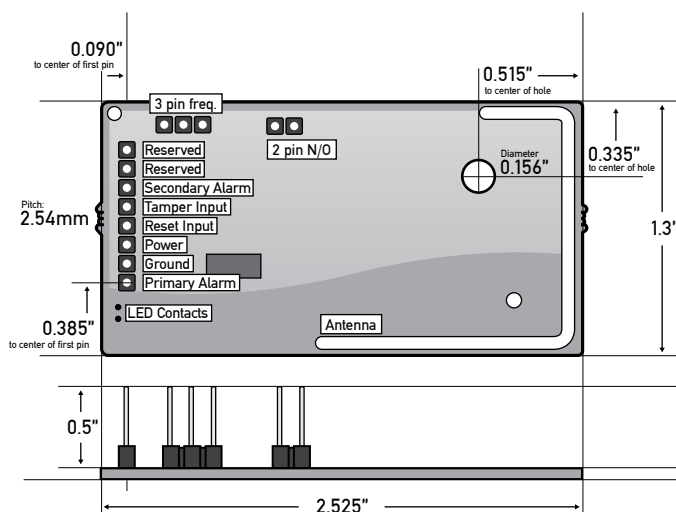


Technical Specifications

Power Requirements

- 2.4 to 5.5 volts DC, 100mA minimum
 - Average current draw 10 uA*
 - Peak current draw <100mA*
- * assumes 3 minute check-in messages and infrequent alarms

Physical Characteristics



Operating Environment

- -4 to 140F, up to 90% relative humidity, non-condensing

System Requirements

EN1941 - RF module

- Requires use of Inovonics EchoStream receiver
- Please request One-Way Binary RF Module Developer Guide for complete integration requirements

EN1941XS - Serial RF module

- Requires RS232 logic level serial interface with a remote application controller to provide serial data to the module
- Requires use of EN6040 network coordinator or EN4000 serial receiver and a VAR developed application controller designed to support the serial messages
- Please request One-Way Serial RF Module Developer Guide for complete integration requirements

Frequency Options

- 915-925 MHz for Australia
- 921-928 MHz for New Zealand
- 902-928 MHz for North America

- 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.
- Also available in 868MHz frequency for European applications (EE1941/EE1941XS)