



EN3942XS Two-Way Serial Data RF Module TwoWay

The EN3942XS is a line powered two-way serial data transceiver, designed to physically interface with your product as a daughter board for use in the EchoStream Commercial Mesh Network. Serial data sent to the EN3942XS from your remote application controller is formatted by the transceiver, and the data is then transmitted through the network. Likewise, RF messages received by the EN3942XS are formatted and sent as serial data to your remote application controller device.

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

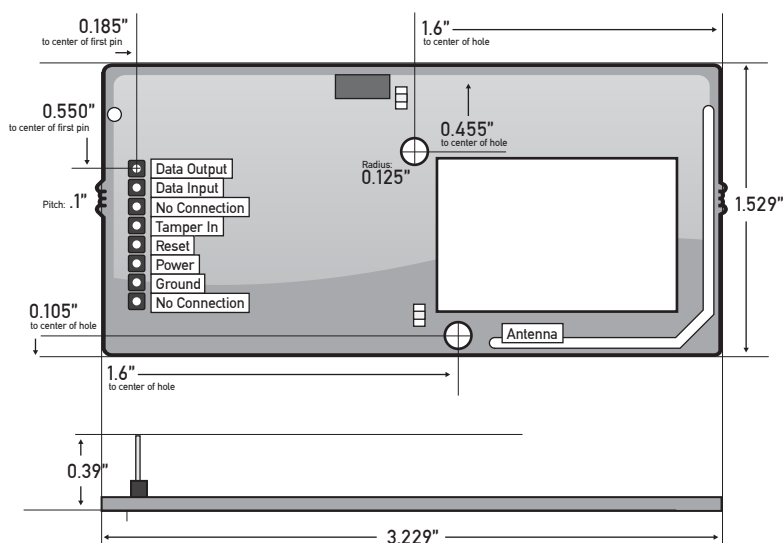
Features

- Equipped with UART logic-level serial connection
- On board voltage regulator
- Two-way communication capable
- Up to 180 bytes of user defined serial data
- FCC and IC approved

Power Requirements

- Transmit Current: 150 mA
- Receive Current: 30mA
- RF Frequency: 902-928 MHz
- Power Requirements: on-board voltage regulator can accept 3.6 to 5.5 volts

Physical Characteristics



Operating Environment

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

System Requirements

- 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 Inovonics serial receiver and a VAR developed application controller designed to support the serial messages
- Please request Two-Way Serial Data RF Module Developer Guide for complete integration requirements

Frequency Options

- 902-928 MHz for North America

Note: The EN3942XS cannot send or receive RF messages to or from other Inovonics end devices. It can only communicate with the network coordinator and repeaters.

- 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.