



The EN1941XS one-way serial data RF module provides reliable low-cost, low-power serial wireless communication for integrators. 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.

### Product Features

Easy to integrate

Low current draw

### Product Specifications

Dimensions:	2.525" x 1.3" x .5" (6.4 x 3.3 x 1.3 cm)
Timing requirements:	All data is sent at a default rate of 9600 baud, no parity, 8 data bits and one stop bit; data is transmitted least significant bit first
Power requirements:	The EN1941XS one-way serial data RF module has an on-board voltage regulator; connect power cabling to an external power supply (Vcc) of 2.6 to 5.5 volts; voltage must be sustained at 2.6 volts or above and supply 100 milliamps during the transmit cycle
Transmit current:	150 mA
Recieve current:	30 mA
Input requirements:	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; 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.
Data:	Positive logic, 9600 bps, eight data bits, one stop bit, no parity, least significant bit first
Payload size:	180 bytes maximum
Operating environment:	
Temperature:	-4 to 140°F (-20 to 60°C)
Humidity:	Up to 90% (non-condensing)
Market:	North America, Australia/New Zealand
EchoStream® frequency:	902-928 MHz, frequency hopping spread spectrum
Regulatory compliance:	FCC, RoHS, ISED, RCM, UL 2560 <sup>1</sup>

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

### EN1941XS One-Way Serial RF Module Installation and Operation Manual

### One-Way Serial Data RF Module Developer Guide

- 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.
  - Inovonics supports recycling and reuse whenever possible. Please recycle these parts using a certified electronics recycler.
- <sup>1</sup> Partners must achieve emergency call system certification from a nationally recognized testing laboratory to claim compliance with UL 2560. The EN1941XS one-way serial data RF module must be programmed with a check-in interval of 60 minutes or greater to comply with UL 2560 network reliability guidelines.

