



The Inovonics EN1941 one-way binary RF module provides reliable low-cost, low-power wireless communication for integrators. It is a universal one-way RF module with two alarm input pins, allowing the use of dual inputs, and can be used for applications such as call notification, or any other switch or alarm condition that needs to be transmitted wirelessly.

The one-way binary RF module is available in the following configurations:

Part Number	Check-In Time	Market
EN1941	3 minutes	Security
EN1941-60	60 minutes	Senior living

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)
Power requirements:	Requires 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
Current draw:	<p>EN1941: Assuming check-in messages every three minutes and infrequent alarm messages (one per day, on average), the average current draw is 32 μA; peak current draw while transmitting is less than 100 mA; one alarm/restore cycle per hour results in about 15 μA increase in average current</p> <p>EN1941-60: Assuming check-in messages every sixty minutes and infrequent alarm messages (one per day, on average), the average current draw is 5 μA; peak current draw while transmitting is less than 100 mA; one alarm/restore cycle per hour results in about 15 μA increase in average current</p>
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

Product Specifications

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
Check-in time frequency:	EN1941: 3 minutes; EN1941-60: 60 minutes
Regulatory compliance:	FCC, RoHS, UL 639, UL 1076, UL 1610, ULC-S306, ULC/ORD-C1076, ISED, RCM; EN1941-60: also includes UL 2560 ¹

Reference Materials (available at www.inovonics.com)

EN1941 Family One-Way Binary RF Module Installation and Operation Manual

Inovonics Product Catalog: North America

EchoStream 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.

¹ Partners must achieve emergency call system certification from a nationally recognized testing laboratory to claim compliance with UL 2560. The EN1941-60 is a supplemental device that is allowed for use in a UL 2560 certified system, but does not carry the UL 2560 unlisted component certification.

