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# Commercial Wireless ISW-EN4200 Serial Receiver



- ▶ **Decoding of RF transmissions into serial data for use by head-en application**
- ▶ **Uses reliable frequency-hopping, spread-spectrum technology**
- ▶ **Supervised connection between the receiver and application**
- ▶ **Serial integration with hundreds to thousands of wireless devices**

The ISW-EN4200 Serial Receiver is a gateway between security transmitters and a head-end application over an RS-232 serial interface. The ISW-EN4200 decodes radio frequency (RF) transmissions from end devices and high-power repeaters, and then outputs the data to the application controller in serial data format.

## System Overview

### Powered by Inovonics

The Commercial Wireless platform, powered by Inovonics wireless mesh network technology, ensures superior range, reliability, and scalability for commercial applications. Using a wide range of transmitters and repeaters, this proven technology provides flexibility and performance to meet the most stringent requirements. This exclusive protocol is available only on Commercial Wireless products.

### Wireless 900 MHz Band

The Commercial Wireless platform sends redundant information on several multi-frequency channels within the FCC Part 15 900 MHz band, providing superior range and reliability. In comparison, systems that use a single frequency technology can only send information on one narrow band channel. Any interference within the band can cause missed signals. With wireless registration, it is easy to add this technology to any application.

## Functions

### Wireless Registration

There is no external programmer required. The transmitter is enrolled using a wireless programming routine built into the receiver. Wireless registration reduces installation time.

### Secure Wireless Implementation

Jam detection monitors all channels for the presence of interference for more than 20 seconds. A reset terminal is inside the receiver, allowing the receiver to accept external reset signals. The receiver includes a case tamper and internal antennas for added security.

### Supervision and Expansion

Transmitter supervisory check-in and a transmitter specific supervisory window, defined in the receiver, support sites with both removable pendants and fixed-position transmitters. The technology also supervises repeaters.

## Certifications and Approvals

Inovonics Wireless Corporation holds the following approvals:

FCC

Conforms to FCC Part 15 regulations

**Installation/Configuration Notes**

**Compatibility Information**

The ISW-EN4200 Serial Receiver is compatible with the following products:

**Control Panels**

D7212GV2 and D7212G

D7412GV2 and D7412G

D9412GV2 and D9412G

**Wireless Interface Module**

ISW-D8125CW Commercial Wireless Interface Module

**Receivers**

ISW-EN4204R LED Receiver

ISW-EN4216R LCD Receiver

**Repeaters**

ISW-EN5040-T High-power Repeater

**Transmitters**

ISW-EN1210 Universal Transmitter (Single-input)

ISW-EN1210EOL Universal Transmitter with EOL Resistor

ISW-EN1210SK Survey Transmitter

ISW-EN1210W Door-Window Transmitter with Reed Switch

ISW-EN1215EOL Universal Transmitter with Wall Tamper and EOL Resistor

ISW-EN1215WEOL Door-Window Transmitter with Wall Tamper, Reed Switch, and EOL Resistor

ISW-EN1223D Water-resistant Pendant Transmitter (Double-button)

ISW-EN1223S Water-resistant Pendant Transmitter (Single-button)

ISW-EN1223SK Survey Pendant Transmitter

ISW-EN1233D Necklace Pendant Transmitter (Double-button)

ISW-EN1233S Necklace Pendant Transmitter (Single-button)

ISW-EN1235D Beltclip Pendant Transmitter (Double-button)

ISW-EN1235S Beltclip Pendant Transmitter (Single-button)

ISW-EN1235DF Fixed-location Transmitter (Double-button)

ISW-EN1235SF Fixed-location Transmitter (Double-button)

ISW-EN1242 Smoke Detector-Transmitter

ISW-EN1247 Glass-break Sensor Transmitter

ISW-EN1249 Billtrap Transmitter

ISW-EN1260 PIR Motion Sensor-Transmitter (Commercial and High-end Domestic Applications)

ISW-EN1261HT PIR Motion Sensor-Transmitter (High-traffic Areas)

ISW-EN1262 PIR Motion Sensor-Transmitter (Residential and Low-traffic Commercial Applications)

ISW-EN1265 PIR Motion Sensor-Transmitter (Ceiling-mount Applications)

**Parts Included**

Quant.	Component
1	ISW-EN4200 Serial Receiver

**Technical Specifications**

**Electrical**

Power: 10 to 14 V, 100 mA

**Environmental**

Relative Humidity: Up to 90%, non-condensing

Temperature (operating): 0°C to +60°C (+32°F to +140°F)

**Mechanical**

Dimensions: 16.2 cm x 9.4 cm x 2.8 cm (6.4 in. x 3.6 in. x 1.1 in.)

Weight: 133 g (4.7 oz)

**Reception Characteristics**

Frequency Compatibility: 901 MHz to 928 MHz

**Trademarks**

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Inovonics is a trademark of Inovonics Wireless Corporation.

**Ordering Information**

**Commercial Wireless ISW-EN4200 Serial Receiver ISW-EN4200 Receiver**

**Americas:**  
Bosch Security Systems, Inc.  
130 Perinton Parkway  
Fairport, New York, 14450, USA  
Phone: +1 800 289 0096  
Fax: +1 585 223 9180  
security.sales@us.bosch.com  
www.boschsecurity.us

**Europe, Middle East, Africa:**  
Bosch Security Systems B.V.  
P.O. Box 80002  
5600 JB Eindhoven, The Netherlands  
Phone: +31 40 2577 284  
Fax: +31 40 2577 330  
emea.securitysystems@bosch.com  
www.boschsecurity.com

**Asia-Pacific:**  
Robert Bosch (SEA) Pte Ltd, Security Systems  
38C Jalan Pemimpin  
Singapore 577180  
Phone: +65 6319 3453  
Fax: +65 6319 3499  
apr.securitysystems@bosch.com  
www.boschsecurity.com

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