



## EN5040 - High power repeater

### EN5040-T - High power repeater with transformer



This sophisticated line-powered 900MHz repeater receiver, decodes, and re-transmits signals from Inovonics EchoStream® transmitters. The EN5040 acts as a range expander for and Inovonics EchoStream transmission that it hears, allowing the Inovonics installation to scale from smaller commercial sites to large campuses with several buildings. It includes an on-board, state of the art, lithium-ion battery. For applications that require protection from the environmental elements, the EN5040 may be placed in an outdoor weatherproof enclosure (ACC640).

## 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.

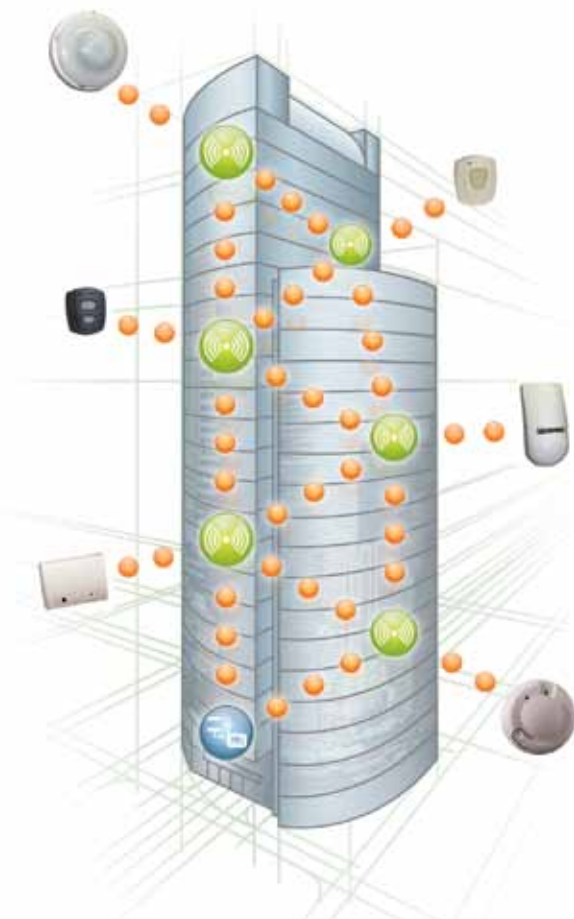
### Scalability

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

## EN5040 / EN5040-T Specifications

Radio	Inovonics EchoStream 900MHz
Housing	
Material	ABS
Closure	Latching with optional screws for high security installs
Dimensions	6.5x3.5x1.0"
Power requirements	12 - 16.5 VAC or VDC EN5040-T includes 120VAC power transformer
Battery capacity	2450mAh @ 3.7V
Back-up battery life	Up to 24 hours (varies on repeater usage)
Operating environment	-4° to 140°F up to 90% relative humidity (non-condensing) UL installations: 32° to 140°F
Battery charger operating temperature	32° to 104°F
Accessories	
ACC640	Weatherproof plastic enclosure for outdoor installations
BAT850	Replacement lithium-ion battery assembly

## Repeater Network



The Inovonics transmitter sends out a signal.



Repeaters receive the signal and re-broadcast it, allowing you to extend the range of your RF system so you can cover large areas such as installations in campuses, sites with detached buildings, or multi-story complexes.



The receiver hears the signal from the repeaters and processes them accordingly.

## Advantages

- Easy to install. Just mount and plug in. No wires or programming required, though registration is required for a fully supervised system.
- Reliable. Supervises for low battery, loss of line power, case tamper, back tamper, and jam detection (interference on all channels is greater than 30 seconds). Also includes an on-board lithium-ion battery, which:
  - Provides backup with no additional expense.
  - Offers up to 24 hours of continuous operation when line power is not available. (Varies on repeater usage)
  - Reports loss of power when programmed/supervised to application
- Expandable. Several layers of repeaters can be employed to provide coverage of large facilities, multistory buildings, or sites with multiple buildings.
- Efficient. Incorporates sophisticated signal management, preventing ping-pong messages and maximizing reliability.

- 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.
- Visit [www.inovonics.com](http://www.inovonics.com) for updated UL information.