



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.

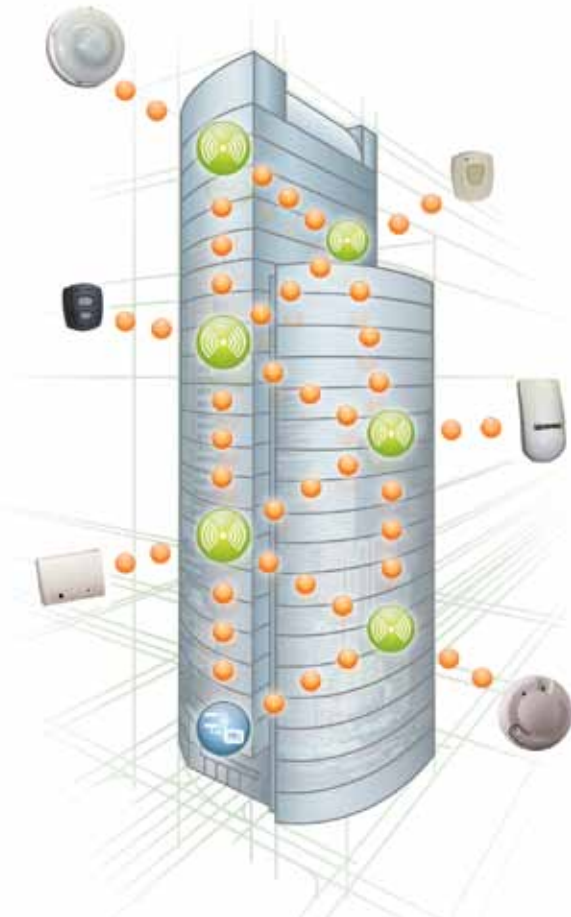
Scalability

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 for updated UL information.