



Relay

Range Extender

Expand the network. Help your customers extend the range of their Home Area Network (HAN) with the Tendril Relay™ range extender.

To be effective, a Home Area Network should encompass all devices, including Smart Energy devices, meters, and outlets in a customer's home. But it can be difficult to connect devices that are too far from the next closest HAN device. The Tendril Relay extends the range of consumers' Smart Energy networks and makes it easier to access hard-to-reach places like garages, out-of-the-way areas in the home, and meters located further from the home. With the Tendril Relay, users can connect a wide range of Smart Energy devices throughout the home.

Get the total picture. Energy Service Providers can use the Tendril Relay to help their customers network their entire household including Tendril energy management devices, electric meter, and household electric appliances. More devices means more potential to save, get ahead of regulatory mandates, provide advanced Load Control, and leverage Demand Response applications. At the same time, consumers can benefit from energy savings by connecting all of their smart devices regardless of where they are in the home.

Manage change with a flexible standards-based approach. The Tendril Relay is ZigBee® Smart Energy 1.0 certified. A ZigBee-based HAN gives consumers the freedom to choose from a variety of interoperable energy management solutions and to take advantage of automation and real-time information for better energy management.

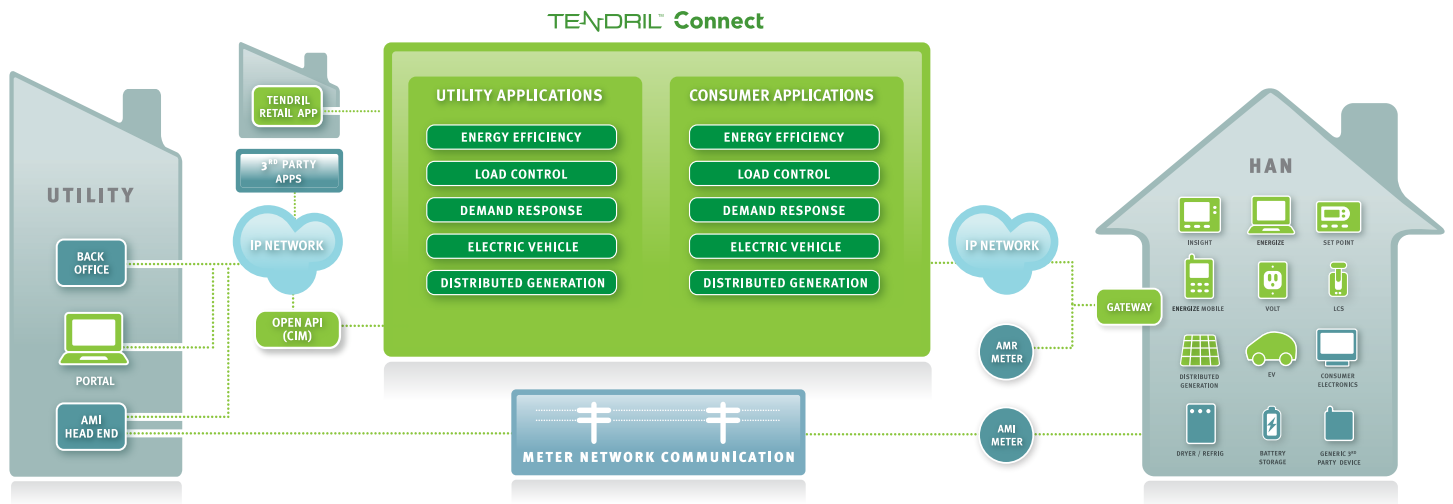
Overview

- Enhances the coverage and range of the in-home ZigBee® wireless network for very large homes or in hard-to-reach areas
- Ensures that in-home displays, ZigBee gateways and other Smart Energy devices have the ability to communicate with each other and with smart meters
- Extends ZigBee networks to enable Smart Energy applications over longer distances in challenging environments like apartment complexes and multi-family dwellings
- LED indicates connectivity status for user and support verification

Key Features

- Standard 120VAC, can be plugged into any standard 3-prong home outlet
- Consumer safe, durable plastic housing
- Over-the-air (OTA) enabled firmware update support
- Custom branding available
- Embedded Tendril Profile provides extended Smart Energy functionality and remote diagnostics





Tendril Connect™ is the proven energy management platform that enables unprecedented insight, choice, and control. This open standards-based, end-to-end technology enables energy service providers and their customers the ability to deploy and take advantage of tomorrow's Smart Energy solutions, today. Energy service providers and their consumers are empowered with data and analytics about energy consumption, helping to drive down costs, lower environmental impact and realize operational efficiencies.

Integrate now and in the future. The Tendril Relay is open and standards-based, enabling it to integrate with today's AMI and AMR meters. Over-the-air updates enable enhancements to deployed device firmware and software.

This flexible, standards-based approach also enables Tendril solutions to comply with and adapt to changing regulatory, consumer and technological needs, as well as future Smart Energy certified hardware, such as WiFi™ and HomePlug® products. With ZigBee-certified Tendril solutions, providers can implement energy management and efficiency programs more easily and securely, and consumers can reduce energy costs and their impact on the environment.

The big advantage. Now energy service providers can meet consumer demand and prepare for regulatory mandates by offering customers a truly integrated experience. The Tendril Connect™ platform, along with Tendril in-home products, makes it easy. No matter the network architecture or metering infrastructure, Tendril offers a solution that gives energy service providers the security and control they need, while delivering the interaction customers expect.

About Tendril. Tendril provides the cloud platform for the energy industry, delivering end-to-end consumer engagement products, applications and services powered by Tendril Connect™—an open, secure and scalable platform that takes the complexity out of the Energy Internet and creates a dialogue between energy service providers and their customers. Delivering consumer engagement software, in-home products and applications as well as easy to integrate utility solutions such as Demand Response and Energy Efficiency, Tendril offers unparalleled insight into energy decisions, making the Energy Marketplace a reality.

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For more information contact a Tendril representative today. Call 720-921-2100 or visit www.tendrilinc.com.

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Relay Technical Specifications

- Intended for use in homes over 5000 sq.ft. to provide ample radio coverage, but can also be used to in smaller homes to boost signal strength if necessary
- ZigBee®/802.15.4 Radio
- 2.400-2.483 GHz, unlicensed ISM band
- 100mW power-amp output
- -94dBm receiver sensitivity
- Internal power consumption: 0.4W
- Elliptic Curve Cryptography (ECC) enabled, or Pre-configured Key enabled for AMI and AMR configurations
- Over-the-air (OTA) embedded software updates

Requirements

- Tendril Connect™ platform
- ZigBee Smart Energy network coordinator

Standards

- ZigBee SE certified
- FCC certified
- UL certified

Availability

The Tendril Relay is available today