



Transport Gateway

Connect on a whole new level. Interact with customers to better manage Demand Response and Load Control scenarios with the Tendril Transport™ gateway.

When it comes enabling the Energy Internet, the gateway is critical. The Tendril Transport effectively brings the Energy Internet, along with all of its energy-saving information, right into the home. The Tendril Transport is an IP gateway device that connects the protocols of the Home Area Network (HAN) to the Internet, opening a new communications channel of interaction and collaboration between consumers and their energy service provider. With the Tendril Transport, utilities can better manage supply, demand and costs, while customers gain more access to energy-related information and more control over energy consumption decisions.

Manage change with a flexible standards-based approach. The Tendril Transport is ZigBee® Smart Energy 1.0 certified and an integral part of an effective Home Area Network (HAN). A ZigBee-based HAN gives consumers the freedom to choose from a variety of interoperable Home Energy Management solutions and to take advantage of automation and real-time information for better energy management.

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

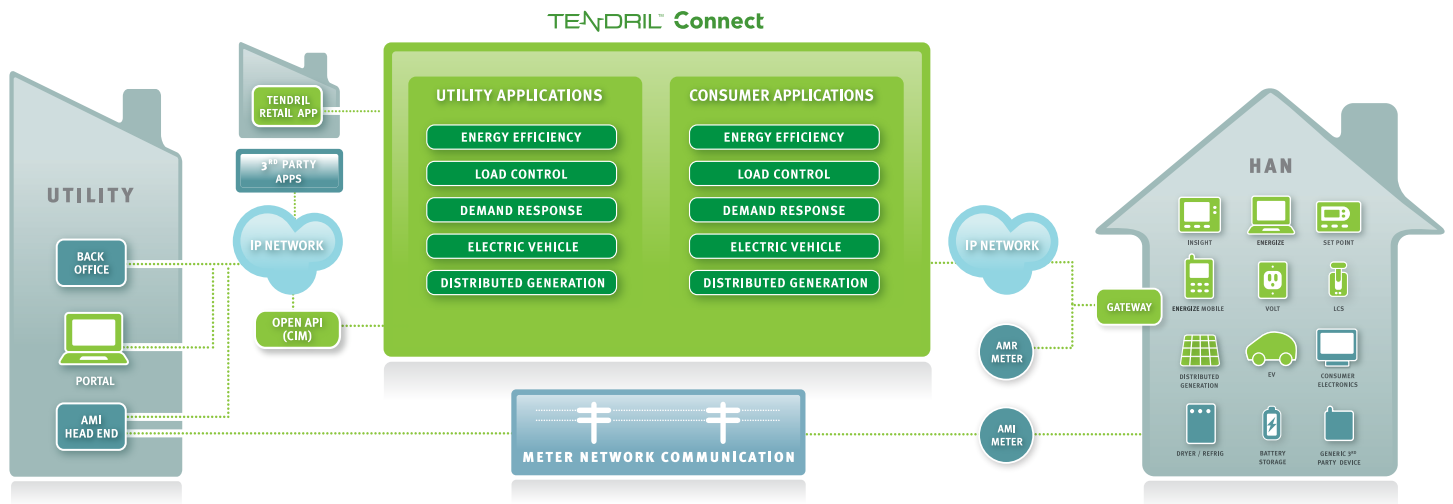
This flexible, standards-based approach also enables Tendril solutions to comply with and adapt to changing regulatory, consumer and technological needs, as well as future Smart Energy certified hardware, such as WiFi™ and HomePlug® products. With ZigBee-certified Tendril solutions, energy service providers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

Overview

- Connects the in-home ZigBee® wireless network to an Internet broadband router (cable-modem, DSL modem, etc.)
- Enables unprecedented insight into and control over household energy footprint with graphical web-based information
- Operates in conjunction with Smart Energy programs of the local energy service provider (where applicable and if enrolled in these programs). Integrates with smart meters, yet is fully capable without a smart meter and can be remotely upgraded once a smart meter is installed

Key Features

- Attractive consumer design
- Consumer safe, durable plastic housing
- Rubber pads on base to provide stability and avoid slipping on hard surfaces
- Screw holes in base for wall-mount applications
- Colored LED lights indicate various conditions for user and customer support
- Wall powered via 120VAC power adapter, with 6' cord
- 6' Ethernet cable for connectivity to home broadband router
- Custom branding available
- Embedded Tendril Profile provides for local or remote network commissioning and diagnostics
- Automated remote updates
- Works both with a smart meter and without a smart meter. May be remotely updated to transition from a home without a smart meter to one with a smart meter.
- Stores up to 60 days of meter energy usage information in the event Internet connection to the platform is lost



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.

With Tendril's third-party HAN device integration program SE 1.1 compliant devices, such as smart thermostats and appliances, communicate seamlessly with the Tendril Transport. Built on open standards technology the Tendril Transport enabled by the Tendril Connect™ platform enables seamless device integration into the Home Area Network (HAN).

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 provides energy service providers the security and control they need, while delivering the interaction customers expect.

Smart meter enabled and Smart Grid enabling. The Transport is designed to work seamlessly with a smart meter. However, most energy service providers have not yet deployed smart meters to all of their consumer's homes. The Transport enables full Smart Grid capability even without a smart meter. In conjunction with a CT clamp, the Transport can even provide whole house usage information to facilitate real time consumer feedback and enable customer base lines for measurement and verification. When a consumer's home is upgraded to a smart meter, the Transport can be remotely updated without any on-site maintenance.

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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Transport Technical Specifications

- Smart Energy ESP (Energy Services Portal) capable
- Atmel ARM-9 Control Processor operating at 180 MHz with 16MB Flash and 16MB RAM
- Embedded Linux OS
- 16MB RAM, 8MB Flash
- ZigBee® Smart Energy 1.0 certified
- ZigBee/802.15.4 Radio
- 2.400-2.483 GHz, unlicensed ISM band
- 100mW power-amp output
- -94dBm receiver sensitivity
- Internal power consumption: 2.2W
- Over-the-Internet (OTI) software updates
- Elliptic Curve Cryptography (ECC) enabled, or Pre-configured Key enabled, for AMI and AMR configurations

Requirements

- Tendril Connect™ platform
- AMI Smart Meter
- AMR Meter
- Broadband Connection with Ethernet

Standards

- ZigBee SE certified
- FCC certified
- UL certified

Availability

The Tendril Transport is available today

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

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