



# EcoConnect

Simple Network Communications

Reliable and redundant networking provides effective network communications in any energy management environment.

## Reliable and Redundant Networking

The EcoConnect is part of the EcoSmart suite of products by Telkonet. This device is a requirement when creating a wireless network of any ZigBee enabled EcoSmart products. The EcoConnect functions as a coordinator of a ZigBee Personal Area Network (PAN). The EcoConnect establishes the wireless channel and PAN identification that a group of EcoSmart products will join. Each EcoConnect device forms a reliable redundant mesh topology between all ZigBee enabled EcoSmart products within its wireless range. To simplify the network for large buildings, it's not necessary for the EcoConnect to connect to every device on its PAN but can rely on each device within its network to direct communications to the next device on the network.

This type of communication is called "mesh networking" and provides a highly reliable method for reaching many devices without the worry of direct signal strength. Because of this mesh topology, the EcoConnect and related EcoSmart products can function on very low wireless power. This allows the EcoSmart ZigBee network to co-exist with many other 2.4Ghz devices or even Wi-Fi services in the same building.



## Overview




- Creates a ZigBee Personal Area Network
- Easy web configuration
- IP enabled for easy management

## Key Features

- Easy installation and maintenance
- Communicates wirelessly with other EcoSmart products to ensure the highest energy savings
- LED lights for easy troubleshooting

## Availability

The EcoConnect is available now

	 ZigBee® 802.15.4	 WiFi 802.11	 Bluetooth®
Focus Application	Monitoring and Control	High-speed Internet	Device connectivity
Battery Life	Years	One week	Weeks
Bandwidth	250Kbps	11Mbps	720Kbps
Typical Range	100+ yards	50-100 yards	50-100 feet
Advantages	Low cost, low power	Speed, ubiquity	Convenience

## Easy Configuration Provides Fast Installation

The EcoConnect provides multiple interfaces for its settings configuration. Setup may be performed with a crossover network cable or serial cable using either a built-in web-server or standard serial command line interface (CLI). To simplify the setup, each EcoConnect may be setup to receive IP address information from an EcoCommander gateway.

The EcoConnect has a single RJ45 network port for connecting to part of either a larger existing network infrastructure or directly connecting to an EcoCommander. The EcoConnect shares the same ultra-wide power supply, which enables it to be powered from any source near its mounting location from 12-277VAC and 12-40VDC. This ability makes it easy to power the EcoConnect through Power Over Ethernet (POE) as well. This gives the freedom of locating the EcoConnect in the most optimal position for architecting the ZigBee network.

### Proven Savings

Telkonet's energy efficiency products have been proven in over 200,000 rooms across Hospitality, Education, Military, and Health Care markets. The power and intelligence behind the EcoConnect makes it an ideal fit for a number of applications, including residential and office complex space. New opportunities for efficiency in HVAC are constantly uncovered with the wide array of support the EcoConnect provides.

**For more information contact a Telkonet representative today.  
Visit [www.telkonet.com](http://www.telkonet.com) or call 888.703.9398.**

### Technical Specifications

100/100Base-T Ethernet RJ-45  
DHCP, Web Interface for IP configuration  
Operational Voltage (DC): 12-40V  
Operational Voltage (AC): 12-277VA

### Options

High + Low Voltage settings  
ZigBee High + Low settings

### Standards

ZigBee Certified  
FCC Certified  
UL Certified  
Field upgradable firmware