



EcoCommander Pro 4.6

Interactive Gateway Server

A network-edge gateway server that provides real-time data aggregation, reporting, and management of the EcoSmart product suite.

Energy Saving Statistics at Your Fingertips

The EcoCommander is a solid-state network appliance used to manage data and remote commands securely via Internet as part of the EcoSmart Product Suite. In a typical EcoSmart network, EcoWave or EcoInsight thermostats perform as ZigBee routers on a redundant wireless network and continuously send data about current temperature, setpoint, thermostat mode, duty cycle, occupancy status, and many other variables regarding the performance of the HVAC unit.

The EcoCommander acts as a gateway for this flow of data, organizing and transmitting it to the EcoCentral web portal for analysis and display. By managing this flow of data, the EcoCommander allows EcoCentral to display meaningful reports, graphs, analytics, and alerts regarding energy usage and savings for the entire group of EcoSmart products distributed across a network. EcoCentral can then perform actions on individual or groups of HVAC units by issuing commands to the EcoCommander gateway. These commands include changing operational settings such as setpoint, thermostat mode, fan speed, or global settings such as temperature minimums and maximums.

Network Intelligence for Easy Setup

Telkonet designed the EcoCommander for simple installation within a network and the web-based graphical-user-interface (GUI) makes initial setup fast and easy. With the platform's history of performance comes a collection of software tools capable of functioning on many network infrastructures. Because of the network tools available on the EcoCommander, complicated port forwarding or special network setup are not necessary.

The EcoCommander can function with a public routable IP address or on a private network by creating an outbound secure tunnel back to EcoCentral. Using this secure Internet tunnel, the EcoCommander forwards all data from each individual EcoWave or EcoInsight thermostat to Telkonet's central database storage. The standard EcoCommander comes with 4 network RJ45 ports for up to 250 room facilities. The EcoCommander Pro comes with 6 network RJ45 ports for larger installations. One port is reserved for the incoming Internet Service Provider (ISP) and the remaining ports can be configured to communicate with other EcoSmart devices, Building Management Systems (BMS), or Property Management Systems (PMS).

For more complicated networks, the EcoCommander supports over 4,000 802.1q VLANs, allowing the gateway to communicate across many networks simultaneously. The EcoCommander also monitors the other components of the EcoSmart Product Suite and can send email or text message alerts in case a device stops responding. Bandwidth requirements for the EcoCommander are minimal, with a typical 100-thermostat building requiring only 100kpbs of bandwidth.



What's New

Same as EcoCommander Pro 4.5 (NA-560) except Compact Flash Drive has been replaced with SSD (Solid State Drive)

Persistent memory to store configuration data locally on the device in addition to being stored in EcoCentral

Compatibility with Telkonet's new Gateway API for 3rd party integration with devices on an EcoSmart network

Overview

On-site system server

Aggregation of data from all EcoConnects

Communicates upstream with EcoCentral

Access to many resources that constantly monitor and control your energy savings

Provides interface to supported property management systems

Key Features

Easily installed and programmed

Supports over 4000 802.1q VLANs

4 or 6 onboard RJ45 ports

Communicates with other EcoSmart products to ensure the highest energy savings

LED lights to ensure product functionality and error reporting

BACnet™ compatible

Availability

The EcoCommander is available now

Flexible with Open Standards and Interoperability

The EcoCommander was developed with interoperability in mind. Using common web service methods, it provides a path for easy third-party tool development. The EcoCommander firmware is under continual development, and with a Linux core, it provides a solid base for expansion. Projects like OpenADR and many developing standards may be remotely loaded onto an EcoCommander that has already been deployed, ensuring a robust upgrade path as Smart Grid protocols are established.

As the central point on the network, the EcoCommander is easily set up to respond to external inputs from Property Management Systems (PMS) or other building automation systems. In hotels, information on rooms that have not been sold or might be out of service allows for deeper energy savings. Additionally, the EcoCommander is able to bridge protocols at the network layer with standards such as BACnet web service. This allows an integration path for buildings which have existing DDC or BMS infrastructure in place.

Proven Savings

Telkonet's energy efficiency products have been proven in over 500,000 devices deployed across Hospitality, Education, Military, and Health Care markets. The power and intelligence behind the EcoCommander make 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 EcoCommander provides.

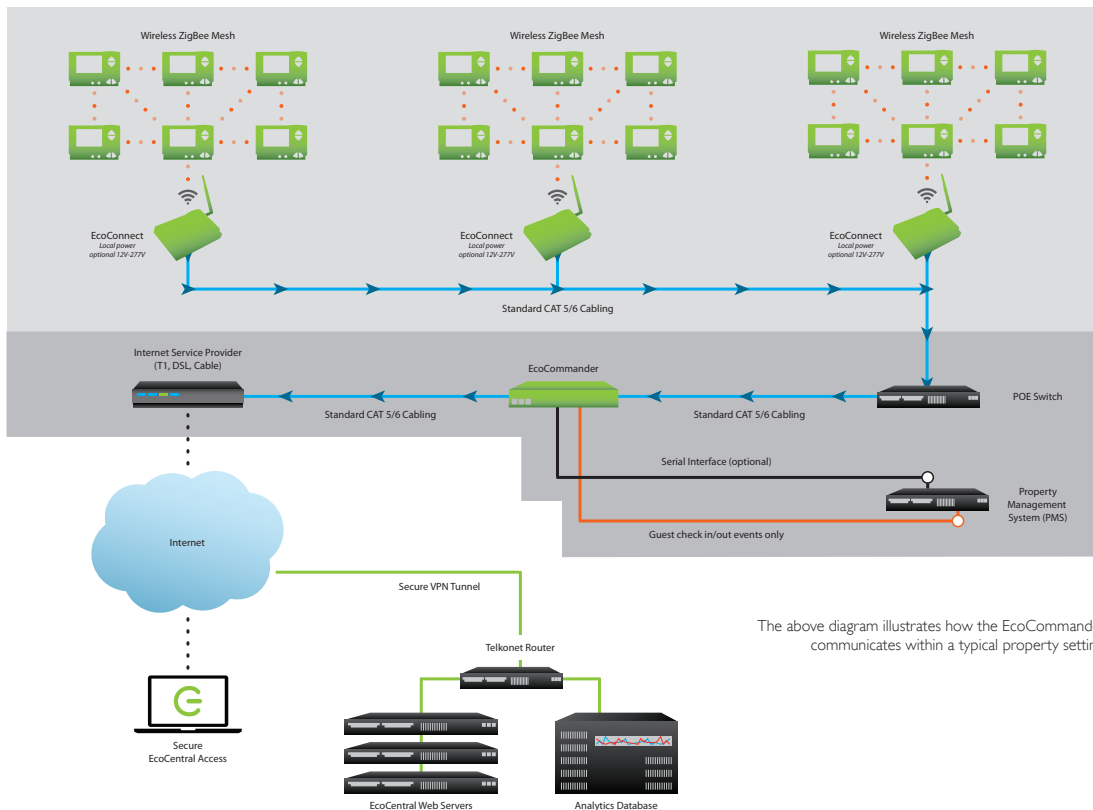
For more information contact a Telkonet representative today.
Visit www.telkonet.com or call 888.703.9398.

Technical Specifications

10/100/1000BASE-T Ethernet RJ45 WAN & LAN Ports
Multiple subnet support
Static port mapping
Dimensions:
EcoCommander: 6.0" (L) x 9.0" (W) x 1.75" (H)
EcoCommander Pro: 15.5" (D) x 17" (W) x 1.75" (H)

Standards

UL Certified
Field-Upgradeable Firmware



The above diagram illustrates how the EcoCommander communicates within a typical property setting.