



DaintreeNetworks



Key benefits

- Enables powerful energy-saving control strategies including scheduling, occupancy, daylighting, task tuning, demand response, and load shedding.
- Allows lighting manufacturers to quickly and easily build powerful wireless control systems.
- Eliminating control wiring reduces expense and complexity while opening new retrofit opportunities.
- Scalable from a single office to system-wide control of hundreds (or thousands) of devices across a distributed enterprise.
- Reliable and robust ZigBee® mesh architecture ensures fast, bi-directional control.
- Provides real-time, measurable information about energy usage.
- Integrates lighting control into advanced smart grid and demand management applications.
- Enables energy management through a simple and intuitive Web user interface, accessible from any remote location.
- Helps buildings comply with green building regulations and qualify for utility and government rebates.

Wireless Lighting Control Platform Overview

Bringing wireless intelligence to a new generation of powerful, simple and interoperable lighting control solutions.

Daintree Networks removes the wires from lighting control, making wide-scale energy efficiency and management a reality. Combining years of expertise and innovations in wireless mesh networking technology and lighting control, Daintree has created the first truly system-wide, standards-based wireless lighting control solution. The result for customers is reliable, simple and low-cost access to powerful control and demand management strategies, ultimately reducing lighting energy usage by up to 70%.

Increasing energy consumption, stringent government regulations and utility incentives have created a critical need and opportunity for intelligently reducing energy consumption in existing buildings. Traditional wired control systems have fallen short, providing only small-scale control while adding prohibitive cost and complexity.

Daintree Networks changes this equation, by providing lighting manufacturers with a set of intelligent tools for building, integrating and bringing to market complete and reliable wireless lighting controls solutions. At the core of these solutions is the innovative **ControlScope™ wireless platform**, a software-based system built on years of development and expertise in wireless mesh networking standards.

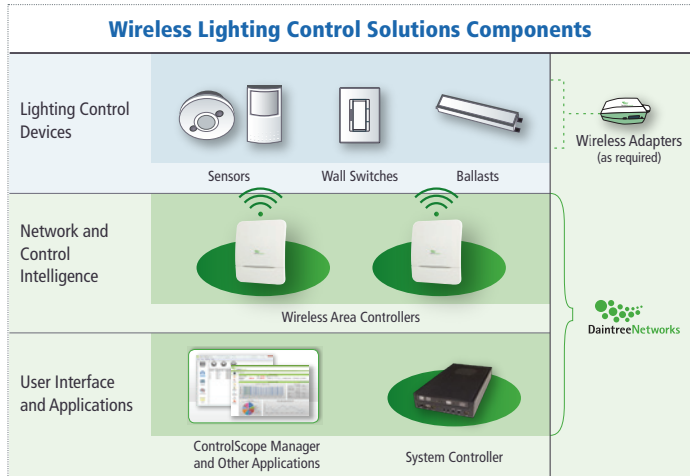
Daintree architecture

Complete Daintree-based wireless lighting control solutions include Daintree products working in tandem with a full set of lighting control devices from our partners, including switches, sensors, ballasts and LED drivers. Daintree's ControlScope wireless platform provides the core wireless network communications and controls intelligence, while our partners continue to do what they do best—build and deliver trusted, high-quality control devices and systems. Our products work behind the scenes to support these systems, giving customers a complete and reliable wireless lighting control solution.

In a Daintree-based solution, the wireless mesh network takes the place of dedicated control wiring and physical control panels. Sensors, wall switches, ballasts and LED drivers all communicate with each other wirelessly, either through an external adapter



or through standard wireless communications capabilities built directly inside the device. Facility managers can set control strategies through Daintree's Web-based application, and those commands are applied wirelessly to individual zones, or across the building or enterprise.



ControlScope wireless acts as the core network software and intelligence platform for the full suite of Daintree products, including:

- The **Wireless Area Controller (WAC)**, a networked device which manages the wireless communications with switches, sensors, ballasts and other end-points in an area.
- The **ControlScope Manager**, an easy-to-use Web-based graphical interface for energy management and system configuration from any location.
- The **System Controller**, a device that provides coordination when multiple WACs are deployed in a system.
- Daintree's **Wireless Adapters**, which provide the option to add external radios to existing wired devices, allowing them to communicate within the wireless network.
- Our **Commissioning Tool**, which enables quick and easy set up of the overall system.

Key Features

- **Wireless Networking:** By eliminating the need for wires, Daintree reduces the cost, labor and complexity associated with that system – including as much as 5 miles of copper wiring for a typical building wing. This also makes Daintree-based systems easier to install in difficult retrofit environments, and makes changes, updates or additions a snap.

- **Interoperability:** Daintree is creating an ecosystem of lighting products that all work seamlessly together in mixed environments. This provides specifiers with a choice of interoperable lighting control devices from a wide range of trusted suppliers, and gives those suppliers access to new markets and customers.
- **Auto-Commissioning:** Daintree uses intelligent patent-pending techniques to automatically commission wireless retrofits, vastly reducing the time and expertise required to set up a wireless lighting control system.
- **System-wide Solutions:** Unlike other wireless lighting controls on the market, Daintree enables true system-wide control and management in a single integrated solution. Facility managers can remotely take full control of their lighting, making decisions that impact granular single-room devices or affect the entire distributed enterprise.
- **Energy Management Data:** Daintree actively monitors and collects granular energy usage data, and communicates that data over the bi-directional wireless mesh network. This enables facility managers to make better informed decisions, delivers savings verification to ESCOs and other third parties, and provides key data for demand response programs.
- **ZigBee and Open Standards:** Daintree is a leader in ZigBee technology, the trusted wireless mesh standard used by hundreds of companies in smart energy, home and building automation and many other industries. This open standards mesh architecture ensures reliability, provides supplier choice and keeps costs low.

About Daintree Networks

Daintree Networks is a clean technology company using wireless innovation to improve energy management within commercial buildings. Daintree provides technology for powerful, standards-based wireless lighting control solutions that deliver substantial lighting energy efficiency improvements in a more cost-effective way than ever before.

Since its founding in 2003, Daintree Networks has been a pioneer in wireless mesh networking, with nearly 400 customers using its industry-standard design verification and operational support tool. The company has brought this extensive experience to bear in developing the industry's first truly interoperable platform for wireless lighting controls. For more information, visit www.daintree.net.



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