



DaintreeNetworks



Key benefits

- Enterprise-class form factor and easy installation are ideal for both retrofit and new construction.
- Communicates with a range of standards-compliant sensors, switches and ballasts.
- Delivers maximum energy-saving control strategies to spaces considered inaccessible or impractical with wired technology.
- Reliable and robust ZigBee® mesh architecture ensures fast, bi-directional control.
- Reduces the expense and complexity of commissioning through the use of intelligent automatic techniques.
- Eliminates control wiring, reducing much of the expense, complication and disruption of a wired system.
- Enables powerful energy-saving control strategies including scheduling, occupancy, daylighting, task tuning, lumen maintenance, demand response, and load shedding.
- Delivers real-time, measureable energy data, creating new methods to manage energy usage and demand.
- Scalable from a single office to system-wide control of hundreds (or thousands) of devices across a distributed enterprise.
- Control configurations can be flexibly updated in real time to meet user needs.



Wireless Area Controller

Intelligent wireless communications for powerful lighting control solutions.

Daintree Networks' **Wireless Area Controller (WAC)** combines innovations in wireless networking technology and lighting control to create the industry's most powerful open-standards controller for wirelessly managing light sources across a wide area. The WAC is the key hardware component of Daintree-based solutions that enable reliable, simple and low-cost access to energy-saving control strategies such as daylighting, task tuning and demand response.

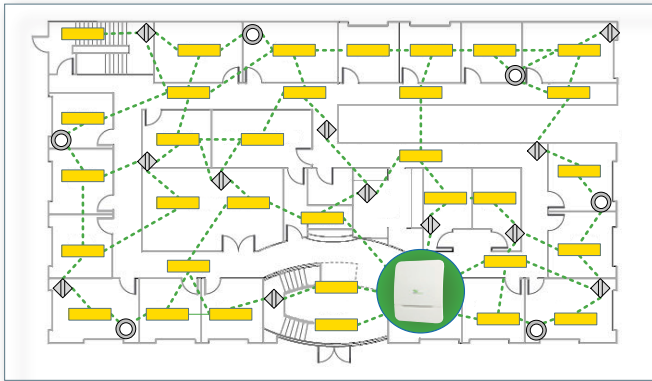
Daintree technology addresses the critical need and opportunity for intelligently reducing energy consumption in existing buildings. Traditional wired control systems have fallen short, providing only small-scale control while adding significant cost and complexity. Daintree uses its years of expertise in open-standards wireless networking to change this equation, creating easily attainable system-wide controls.

Built on Daintree's **ControlScope™ wireless platform**, the WAC delivers all the functionality of expensive and complex control panels, gateways and wires in a single powerful controller. As a key element of a complete Daintree-based wireless lighting control solution, the WAC provides all of the critical communications, control, management and commissioning functions needed to deliver intelligent control.

Daintree Networks Control Architecture

The WAC is at the heart of Daintree Networks' wireless lighting control solutions. It is designed to deliver intelligent local control across a large area for many dozens of interoperable wireless control devices from Daintree partners.

Using open and interoperable ZigBee standards-based technology, the WAC communicates wirelessly with standards-compliant sensors, switches, ballasts, LED drivers and fixtures to transform basic room controls into a complete wireless control solution. A WAC can independently control a single extended area such as a building wing or floor, and multiple WACs are connected together through an Ethernet network to scale the system to many hundreds or thousands of lights across a distributed enterprise.



A single WAC manages a mesh area of wireless lights, sensors and switches.

Daintree's ControlScope Manager provides an easy-to-use, Web-based graphical user interface to monitor zones and devices, configure and program the WAC, and assign control strategies. The two-way communication provided by Daintree's wireless mesh network also enables the WAC to track energy use and provide valuable data for granular energy monitoring and advanced demand management.

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.

Technical Specifications

Physical Characteristics

Dimensions	9.37" (238.1mm) x 8" (203.2mm) x 1.18" (30mm)
Weight	1.06lb (480g)
Operating Temperature	-13° to 122° F (-25° to 50° C)

Power Supply

Supply Voltage	5V DC 1.5A
Connector	2.1mm Barrel Connector

Ports

Ethernet (RJ45)	10/100 Mbps (x2)
USB (Host)	USB 2.0 (x2)
USB Micro (Device)	USB 2.0 (x1)
Memory Card	microSD (x1)

Visual and Physical Indicators

LED (x4)	Status Configuration Maintenance Error
Button (x2)	Configuration

RF Characteristics

Frequency	2.4GHz ISM Band
Transmit Power	100mW (+20dBm)
Antenna	Internal

Regulatory Compliance

Radio	FCC Part 15.247 C-Tick (AS/NZS 4268)
EMC	FCC Part 15 Subpart B C-Tick (AS/NZS CISPR 22)

Ordering Information

WAC50-S25	Wireless Area Controller (25 control point license)
WAC50-S50	Wireless Area Controller (50 control point license)
WAC50-S100	Wireless Area Controller (100 control point license)



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