

Daintree™ Wireless Area Controller (WAC60)

Spec Sheet



Next-generation hub for facility-grade IoT

The **Wireless Area Controller (WAC60)** is part of the Daintree Networked product portfolio, an open networked wireless controls solution for lighting and building control, monitoring, and optimization. Daintree controls provide a highly scalable solution to address evolving environmental regulations and transform spaces into intelligent environments for buildings of all sizes.

The Daintree Networked lighting controls platform uses the WAC60 to connect lighting, plug loads or HVAC devices. This controls system can also connect to Daintree software apps like ControlScope Manager and monitor and maximize the energy savings in networked buildings. Additionally, the Daintree Networked platform allows integration with third-party apps to enable other IoT functionality like heat mapping, people counting, asset tracking and location based services.

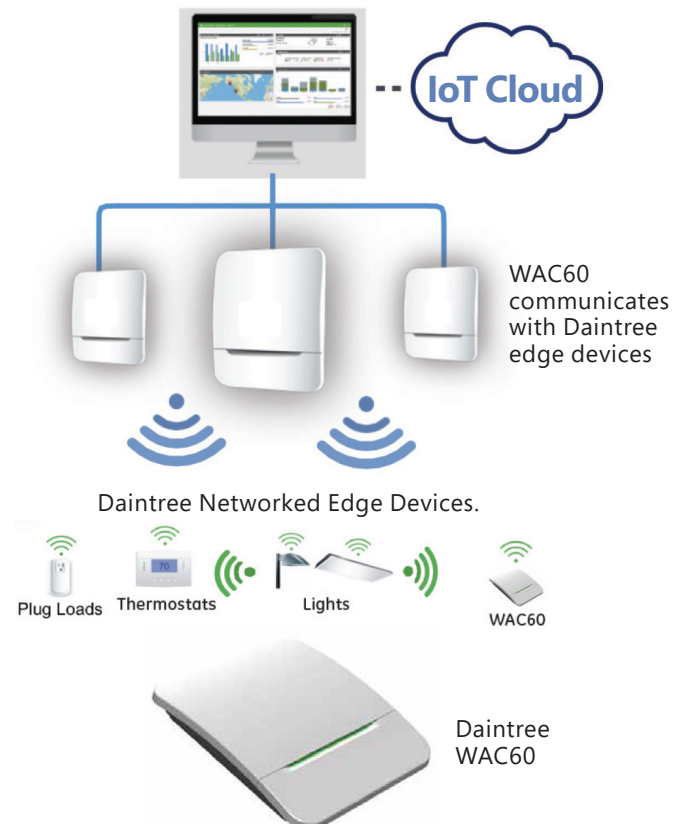
- Up to 50% Energy savings across lighting, HVAC, plugload, fans and more
- Automated demand response, superior comfort and lower maintenance expense
- Visibility into energy usage, trends and insights to optimize operations with the Daintree ControlScope app.
- Regulatory compliance with Title 24; IECC, ASHRAE 90.1, 2005 EnergyPolicy Act; 2007 Energy Independence and Security Act; 2009 DOE Regulations

Daintree Wireless Solutions Product Overview

The WAC60 is the next-generation hardware heart of Current's industry-leading Daintree Networked wireless controls solution for smart buildings. Powered for the first time by Intel,® the leader in next-generation chips, the controller delivers significant energy savings and operational improvements in a simpler, more cost-effective way. The WAC is designed to deliver intelligent local control across a large area for hundreds of interoperable wireless sensors and control devices from Daintree ecosystem partners.

The WAC collapses complex control panels, gateways, and miles of wires into a single powerful controller. Using open and interoperable ZigBee® standards-based technology, the WAC communicates with standards compliant sensors, switches, ballasts, and LED drivers to transform basic room controls into a complete wireless control solution. A WAC can independently control a single extended area, and multiple WACs can be connected through an Ethernet network to scale the system to many hundreds or thousands of lights, sensors, and building control devices across a distributed network.

Daintree Network Architecture



Daintree™ Wireless Area Controller (WAC60)

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Key Features and Benefits


- Powered by Intel
- WAC60 is the heart of the Daintree Networked platform by communicating with Lighting Sensors and other edge devices and sends data to the cloud for energy management and IoT enablement.
- Securely connects to Current's Control Scope energy management app and IoT Cloud platform
- Simultaneously support wireless sensing and controls using Current's Daintree open solution for wireless building controls, enabling support for wireless and/or wired connectivity across many IoT applications
- Equipped for IoT challenges of the future, e.g., processing power and bandwidth
- Supports AllSites schedule integration

Warranty

Current offers a limited Warranty across its Daintree Portfolio. The table below summarizes the Warranty terms. For additional information, please review the Limited Warranty Document on the Daintree Homepage.

Component	Warranty Period	Coverage Details
Daintree Software	1 year (IoT Cloud installed Software) Subscription term (SaaS) 3 years	Current warrants that as long as all applicable fees due are paid, Daintree Software will substantially conform to the applicable published documentation and published specifications for the Warranty Period.
System Controller	3 years	100% parts coverage. Warranty for non-Daintree software (such as operating system software) is provided by the respective software; Current makes no warranty with respect to non-Daintree software.
WACs	5 years	100% parts coverage
Wireless Adapters	5 years	100% parts coverage
Wireless Devices	5 years	100% parts coverage, excluding batteries
Wireless Thermostats	2 years	100% parts coverage

Specifications

Dimensions	9.4" H x 8" W x 1.2" D
Weight	1.06lb (480g)
Operating Environment	32°F to 104°F (0°C to 40°C) Indoor, dry location (Install in non metallic waterproof enclosure for outdoor applications)
Processor 	Intel® Atom™ Processor E3805
Memory and Storage	2 GB RAM, 8 GB Flash
Status Indicator	Green (Normal Operation) Orange (Attention Required) Red (Error Condition)
I/O	2 10/100 Mbps Ethernet 2 USB Type A (host) 1 microSD memory card 1 2.1mm barrel (power) 2 Button (configuration) 1 Modbus/RS485 (via USB interface)
RF	2.4GHz ISM Band 100mW (+20dBm)
Power	12V DC, 0.9A (max) 3.4W (network joined) 2 options: PoE (with the addition of a PoE splitter optional not included) and via a wall plug-in power supply included.
Connectivity	RS-485 (via USB/RS-485 adapter), Ethernet, IEEE 802.15.4 (through the Daintree WAC software)
Warranty	5 Years

Part Number	Product Description
WAC60	Wireless Area Controller
TL-SF1008P	8 Port Switch with 4 POE ports
TL-SG1008PE	8 Port Switch with 8 POE ports