

Wireless Area Controller (WAC60)

Next-generation hub for facility-grade IoT

Daintree Enterprise Solution

The **Wireless Area Controller (WAC60)** is part of the Daintree 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.

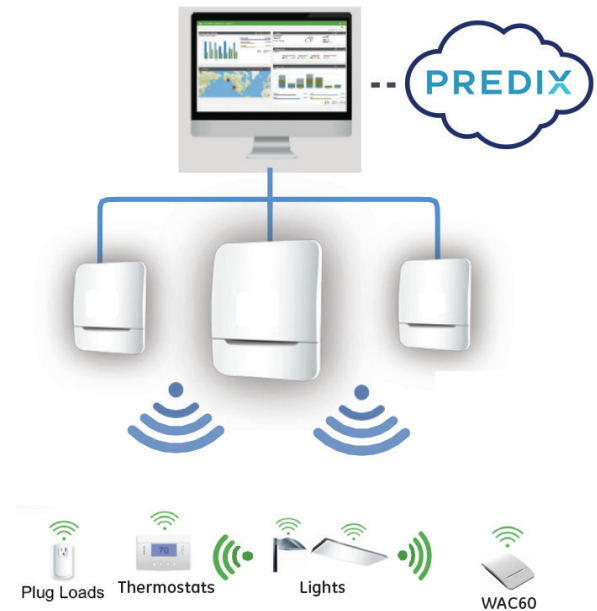
Consisting of four components, the Daintree network includes sensors and controls at the edge, an open API cloud platform, and software applications such as Control Scope Manger and AllSites™ to help real estate facility managers make decisions based on how space and assets are being used using a data-rich sensor network.

- Up to 50% Energy savings across lighting, HVAC, plugload, fans and more
- Visibility into energy usage, trends and insights to optimize operations
- Automated demand response, superior comfort and lower maintenance expense
- Regulatory compliance with Title 24; 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 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 enterprise.



Daintree Network Architecture



Wireless Area Controller
(WAC60)



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Key Features and Benefits



- Powered by Intel, the leader in next-gen chips
- Securely connects to Current's AllSites application and GE's Predix industrial-strength IoT 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 applications
- Double the number of simultaneous IoT devices
- Read/Write BACnet, Modbus, Lontalk Powered by Niagara Edge Lite, by Tridium™ the software engine inside the Jace™
- 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 (on-premise installed Software) Subscription term (SaaS) 3 years	GE 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; GE 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)
Connectivity	RS-485 (via USB/RS-485 adapter), Ethernet, IEEE 802.15.4 (through the Daintree WAC software)
Building Protocols	BACnet (client), Modbus, Lontalk, ZigBee® (through the Daintree WAC software)
Edge Driver	Niagara Edge Lite
Edge Driver 	Niagara Edge Lite
Schedule	Run on AllSites Solution
Warranty	5 Years
BacNet over IP	ANSI/ASHRAE Standard 135-2016

Product Code	Product Description
WAC60	Wireless Area Controller

