

Wireless Area Controller (WAC60)

Next-generation hub for facility-grade IoT

Daintree Wireless 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.

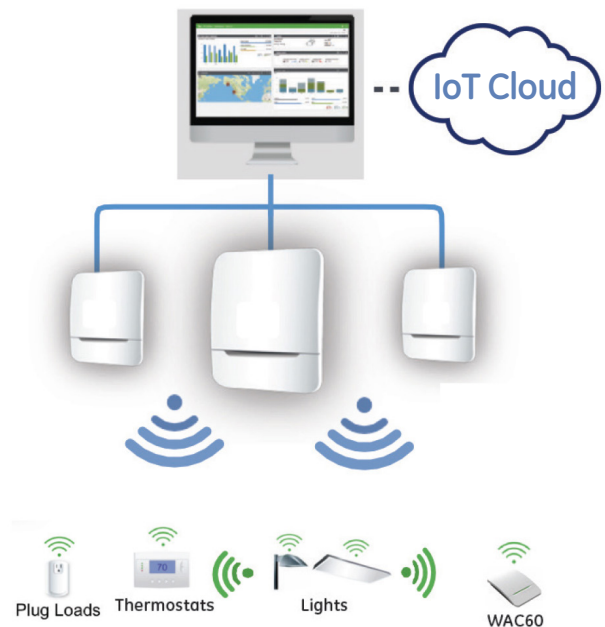
Consisting of four components, the Daintree network includes sensors and controls at the edge, an open API cloud platform, and software applications such as Control Scope Manger and AllSites™ to help real estate facility managers make decisions based on how space and assets are being used using a data-rich 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 industrial strength 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 applications
- Double the number of simultaneous IoT devices
- Read/Write BACnet, Modbus, powered by the Niagara Framework 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 (IoT Cloud 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 |

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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) |
| Connectivity | RS-485 (via USB/RS-485 adapter), Ethernet, IEEE 802.15.4 (through the Daintree WAC software) |
| Edge Driver  | Niagara Framework |
| Warranty | 5 Years |

| Product Code | Product Description |
|--------------|--------------------------|
| WAC60 | Wireless Area Controller |