

CUSTOMER NAME \_\_\_\_\_

Project Name \_\_\_\_\_

Date \_\_\_\_\_ Type \_\_\_\_\_

Catalog Number \_\_\_\_\_

## Daintree™

### Wireless Area Controller (WAC70)

The **Wireless Area Controller (WAC70)** is the heart of the Daintree Networked product portfolio, a wireless controls solution for lighting and smart building control, monitoring, and optimization. Daintree Networked controls provide a highly scalable solution to address evolving environmental regulations and transform spaces into intelligent environments for buildings of all sizes.

## DESCRIPTION

The Daintree Networked lighting controls platform uses the WAC70 to connect lighting, plug loads, HVAC devices and other environmental sensors. This controls system can also connect to Daintree software apps like Daintree Controls Software to schedule, monitor, maximize the energy savings in networked buildings, generating reports, alarms and notification. 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% additional energy savings across lighting, HVAC, plug load, fans and more
- Real-time data visualization of energy usage, trends and insights to optimize operations with the Daintree Controls Software web app.
- Automated demand response, superior comfort and lower maintenance expense.
- Regulatory compliance with Title 24; IECC, ASHRAE 90.1, 2005 Energy Policy Act; 2007 Energy Independence and Security Act; 2009 DOE Regulations.

## PRODUCT OVERVIEW

The WAC70 is designed to deliver communication and intelligent control across hundreds of interoperable nodes, wireless sensors, switches and control devices in the Daintree Networked platforms.

A node is any Daintree wireless device that connects and communicates to the Daintree Networked platform.

**WAC70-SM-DT supports up to 60 nodes (devices)**  
**WAC70-LG-DT can support up to 175 nodes (devices).**

Devices can be zoned and scheduled with Daintree Controls Software. The software can bridge multiple WAC70 gateways for multi-site scheduling and data mining applications.

## KEY FEATURES AND BENEFITS

Powered by Intel

IoT Certified. IoT is the Global Standard for IoT Security®

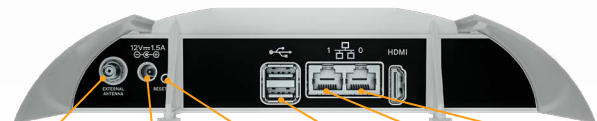
Integrates with Daintree Controls Software web app for scheduling in single or multi-site functionality WAC70-DT communicates with lighting sensors actuators and other edge devices. The WAC70 Wireless Area Controller sends data to the cloud for energy management and IoT enablement.

Securely connects to Daintree Controls Software energy management app and IoT Cloud platform.

Simultaneously supports wireless sensing and controls using Current's Daintree open solution for wireless building controls, enabling support for wireless and/or wired connectivity across many BMS and IoT applications.

Equipped for IoT challenges of the future, e.g., processing power and bandwidth.

Internal antenna for the mesh network and SMA connection port for an external antenna for harsh environment applications (freezer, exterior lighting control, etc.)



External Antenna Power Connector Button A USB ports Ethernet BLDG Ethernet WAN

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**WARRANTY**

Current offers a limited Warranty across its Daintree Portfolio. The table below summarizes the Warranty terms. For additional information, please go to [www.LED.com](http://www.LED.com).

COMPONENT	WARRANTY PERIOD	COVERAGE DETAILS
<b>Daintree Software</b>	1 year (IoT Cloud installed Software) Subscription term (SaaS) 3 years	Current warrants that as long as all applicable hosting and support fees due are paid, Daintree Software will substantially conform to the applicable published documentation and published specifications for the Warranty Period.
<b>WAC70</b>	3 years	100% parts coverage
<b>Wireless Adapters</b>	5 years	100% parts coverage
<b>Wireless Devices</b>	5 years	100% parts coverage, excluding batteries.
<b>Wireless Thermostats</b>	2 years	100% parts coverage

Daintree wireless controls are available integrated and preinstalled in many Current lighting fixtures. For a complete list of integrated sensors, look for the Daintree Wireless Controls icon on the product pages on [LED.com](http://LED.com)

**PRODUCT CERTIFICATIONS**



Contains FCC ID: QOQ-GM240P  
Contains IC: 5123A-GM240P  
CAN ICES (A) / NMB (A)  
cUL 916 Certification



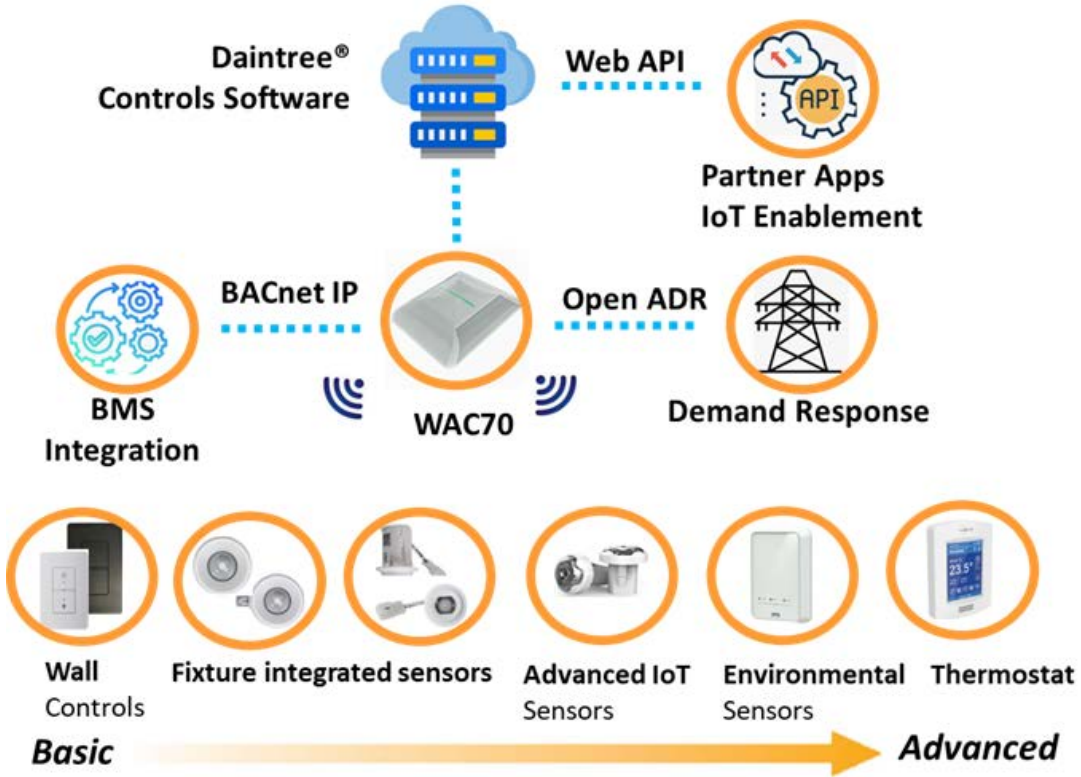
**SPECIFICATIONS**

<b>Input Voltage</b>	12VDC; 2A Connects to UL Class 2 Wiring Only
<b>Power Connector</b>	2.1mm barrel connector
<b>Connections</b>	(2) RJ45, 10/100 Mbps Ethernet (2) USB 2.0 (1 Modbus / RS485 via USB) (1) HDMI
<b>Network Capacity:</b>	WAC70-LG-DT: Up to 175 wireless devices WAC70-SM-DT: Up to 60 wireless devices
<b>Radio Properties</b>	USA/Canada: 2.4 GHz ISM band, 100mW (+20dBm)
<b>Memory &amp; Storage</b>	8GB RAM & 128GB SSD
<b>Mounting:</b>	Wall or ceiling surface
<b>Dimensions:</b>	9.5in x 7.9in x 2.1in
<b>Distances, Maximum:</b>	100' between wireless devices maximum (wireless range is clear line of sight) 300' of Ethernet cable between WAC and Ethernet switch or System Controller
<b>Operating Environment:</b>	Indoor, dry location (Outdoor: Environment non-metallic waterproof enclosure required) 32°F to 104°F (0°C to 40°C) with provided power adapter

**ORDERING INFORMATION**

SKU	PRODUCT CODE	DESCRIPTION
<b>93321597</b>	WAC70-LG-DT	Large Wireless Area Controller (Capacity: up to 175 nodes)
<b>93321596</b>	WAC70-SM-DT	Small Wireless Area Controller (Capacity: up to 60 nodes)
<b>93323635</b>	PS5712TG POE+ SPLITTER	PoE+ 12V, 2A Splitter
<b>93323638</b>	A203N ANTENNA	External Antenna
<b>93323720</b>	NM6FTSM200-ANT CABLE	External Antenna Extension Cable

**DAINTREE NETWORK ARCHITECTURE**



**DIMENSIONS**

