Wireless Fixture Adapter (WFA100-SN)

Daintree Wireless Solution

The **Wireless Fixture Adapter (WFA100-SN)** 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.
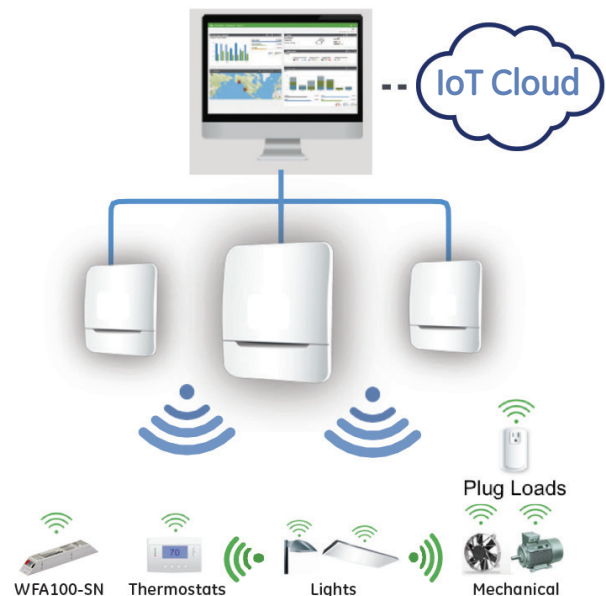
Consisting of three components, Daintree includes sensors and controls at the edge, an open API cloud platform, and software apps to help facility managers make decisions based on how space and assets are actually being used using a data-rich sensor network. Benefits of adding wireless Daintree controls include:

- 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 WFA100-SN is a cost-effective wireless control solution, providing ON/OFF and 0-10V dimming control of ballasts and LED drivers. The isolated relay offers N/O and N/C contacts providing robust switching options to control a variety of loads. Its compact form factor provides for simple installation and makes it an extremely versatile solution for a wide range of fixture types and sizes. It can also adapt low voltage occupancy and photo sensors to enable these devices to be controlled wirelessly.

The WFA100-SN integrates a standard ZigBee radio that operates seamlessly with other standard ZigBee wireless products to enable advanced lighting controls, from scheduling and occupancy control to daylighting, task tuning and more.

IoT Cloud

Plug Loads

WFA100-SN   Thermostats   Lights   Mechanical

Daintree Network Architecture

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Warranty

GE offers 24 × 7 support with a 30-minute rapid response time for technical issues. The average tenure of GE's support is 10 years and a 93% overall satisfaction rating. The table below summarizes the warranty period for all components of the Daintree system.

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

Connectors (Terminal Block)	Function
INPUT VOLTAGE	
Black	Active
White	Neutral
ISOLATED RELAY	
Red	Normally Open (N/O) contact
Yellow	Normally Closed (N/C) contact
Black	Common
SENSORS	
Red	24VDC
Gray	Digital Ground
Blue	Digital input (occupancy sensor)
Orange	0-10VDC Analog input (photosensor)
DIMMING	
Gray	Analog Ground
Violet	0-10VDC Analog output

Specifications

Dimensions (w/mounting)	1.18" W x 0.98" H x 7.03" L (30mm W x 25mm H x 178.5mm L)
Operating Environment	-13°F to +158°F (-25°C to +70°C) Indoor use only (or inside non-metallic waterproof enclosure)
Indicators	Green LED (power) Green LED (joined network) Red LED (error state)
Mounting	In-fixture/enclosure screw installation
Input Power	120-277 VAC 50/60Hz
Power Consumption	0.72W @120V (Idle, Relay OFF) 0.72W @277V (Idle, Relay OFF) 1.18W @120V (Relay ON) 1.18W @277V (Relay ON)
Occupancy Input	Active high (>= 8V). Max 40V, Impedance ~23K
Photo Sensor Input	0-10V, Max 24V, Input resistance ~9K
Isolated Relay	N/O and N/C contacts Zero Crossing
Load Rating	3A @ 120-277 VAC
Load Types	General Use, Electronic Ballast
Ballast/Driver Control	On/Off 0-10V Dimming
Low Voltage Output	24VDC; 35mA
Dimming Output	0-10V; 5mA (sink or source)
Slave/Power Pack Control	Yes (using isolated relay contacts)
Radio Properties	2.4 GHz +8dBm transmit power
Compliance	UL listed, FCC Part 15, RoHS
Warranty	5 Years

Product Code	Product Description
WFA100-SN	Wireless Fixture Adaptor with Sensor Inputs

Installation Instructions

WFA100
Each terminal can accept one conductor only. Connect only one 24AWG to 16AWG (0.2 -1.5mm2) wire to any terminal locations showing normal/emergency.

Call 1.844.378.4960 • products.currentbyge.com