

Daintree™ Outdoor Node (WANSI-277/480)

The **Daintree™ Outdoor Node (WANSI-277/480)** 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 indoor and outdoor spaces into intelligent environments.

Consisting of three components, Daintree includes sensors and controls at the edge, an open API cloud platform, and software applications. Benefits of adding wireless Daintree controls include:

- Up to 50% Energy savings across lighting, HVAC, plug load, fans and more
- Visibility into energy usage and trends
- Automated demand response, superior comfort and lower maintenance expense
- Regulatory compliance with IECC 2018, ASHRAE 90.1 2016, and Title 24.

The Daintree™ Outdoor Node utilizes the Daintree Enterprise wireless network for dimmable light luminaire control and scheduling. With the addition of the outdoor controls node we've extended the powerful Daintree™ wireless control network to the exterior. Users now have the ability to control their exterior LED lights on the same network as the interior.

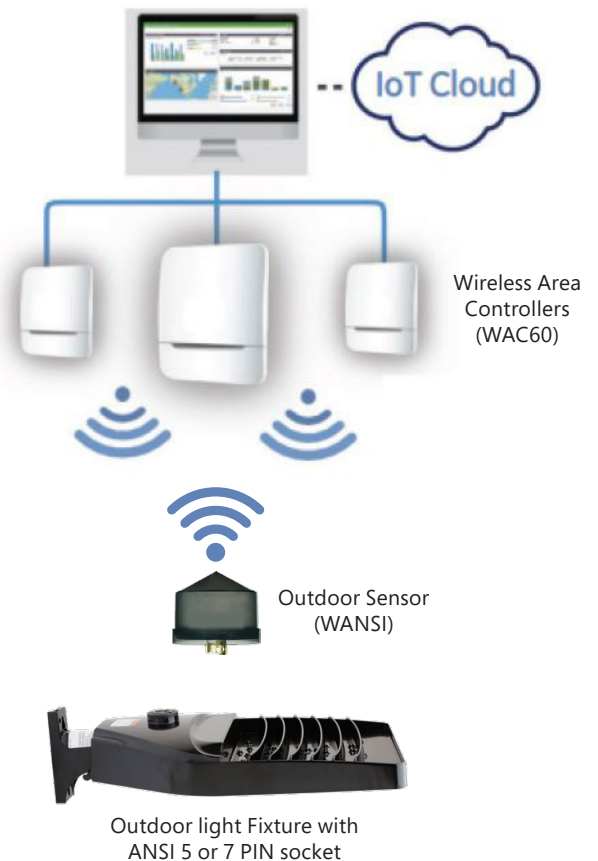
This ZigBee® wireless unit is compatible with ANSI C136.41 5 or 7 PIN receptacles in conjunction with a 0-10V dimming driver. The node features durable construction to withstand a variety of outdoor environments. It is available in both 120-277V and 347-480V configurations.

- Intended for use with the Daintree Enterprise platform
- Dimmable lighting control
- Flexible scheduling
- Capable of integrating with Building Management Systems
- Mobile/Remote control options available
- Ability to control individual light fixtures or groups

Ordering Information:

Model Number	Description	SKU
WANSI-277	105 - 305 VAC, 50/60 Hz	93123552
WANSI-480	312 - 530 VAC, 50/60 Hz	93123553

Daintree Network Architecture



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Application Requirements:

Mounting

This node is designed to be inserted into the ANSI 5 or 7-pin socket on an outdoor LED lighting fixture.

Node Spacing

Recommended maximum spacing between nodes, in order to create a proper mesh network, is 320 ft.

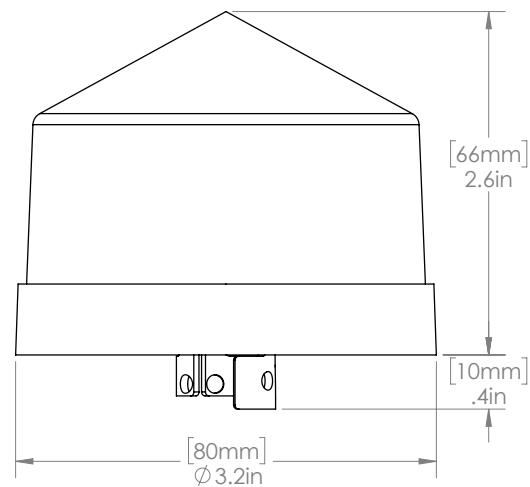
Operating Range

At least one node must be within 320 ft. of a Daintree Wireless Area Controller (WAC60) device.

Certifications:



Product Dimensions:



Technical Specifications:

Load Rating	1,000W/1,800 VA	15A relay tested to 15,000 cycles on LED loads
Operating Temperature	-40°C to +70°C	-40°F to +158°F
Surge Protection	2 MOVs @ 10,000 A I _{max}	760 Joule MOV Protection
Power Consumption	≤2.0 Watts @ 120 - 277V ; ≤3.6 Watts @ 347 - 480V	
Dielectric Strength	5,000 Volts	Between current carrying parts
TRIAC Assist	800V	Prolongs relay life and reduces electrical noise
Firmware Upgrades	Over-the-Air (OTA)	OTA firmware updates via ZigBee® mesh network
Dusk to Dawn Control	Upon loss of ZigBee® communication, node defaults to photocontrol dusk to dawn operation.	
ANSI C136.10 Life Rating	"Long Life"	Meets "Long Life" durability and electrical ratings.
Spectral Sensitivity	Near IR enhanced to reduce triggering by artificial light	Low drift silicon photodetector
Printed Circuit Board	Moisture Repellant Glass Epoxy	< 0.5% Moisture absorption
Cover	Polycarbonate (Smoke Gray: 120-277V, Smoke Brown: 347-480V)	UV stabilized grade for long life
Base	Polycarbonate 140°C	UL94HB Flame Class Rating
Gasket	Neoprene	ASTM D 1056
Operating Light Levels	Turn-on: 1.5 FC, 1.5:1 Off/On Ratio	+/- 0.25 FC, 3-5 Sec Turn-Off Delay
Dimming Interface	0-10Vdc (30mA sink)	Shortcircuit protected