

PHILIPS

OpenADR Gateway

LCN1880



Specification Sheet

LCN1880

OpenADR Gateway

The OpenADR Gateway is an OpenADR 2.0b certified Virtual End Node (VEN) device that receives utility Demand Response (DR) signals, which enable a connected lighting system to automatically react to DR events.

LCN1880

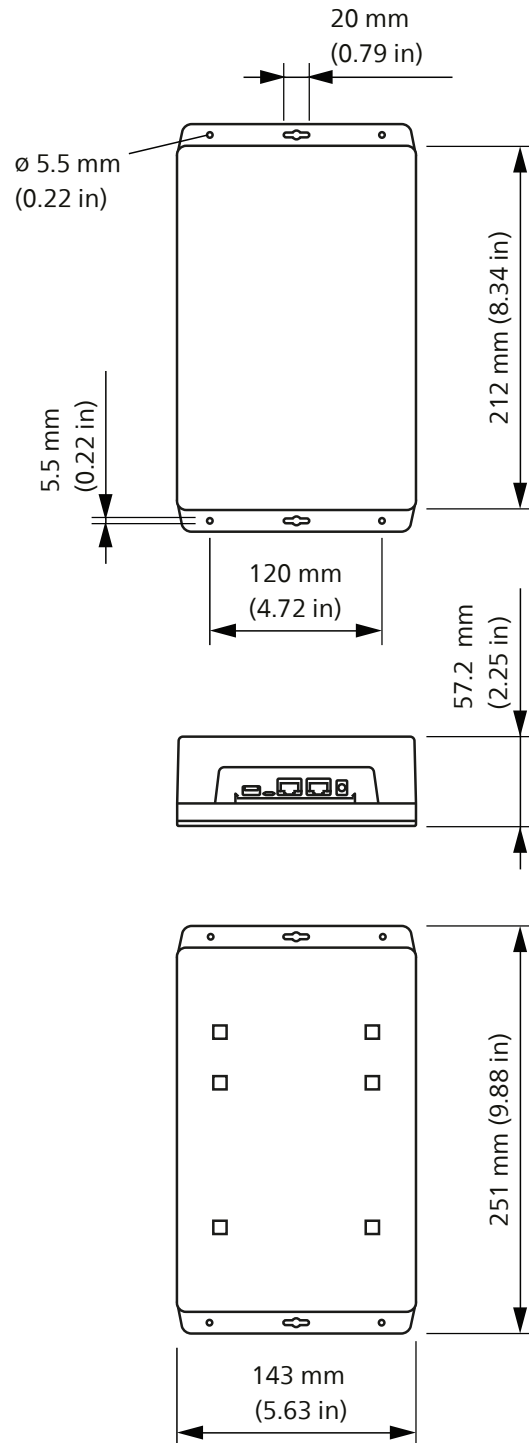
Product description

The OpenADR Gateway makes it easy to participate in Demand Response (DR) programs that use connected lighting. The OpenADR Gateway receives secure OpenADR 2.0 messages from the utility during DR events and signals the connected lighting system to dim the lights to reduce power consumption. The utility then triggers DR events to reduce the load on the electric grid at times when the electrical demand is high. DR helps the utility to avoid costly upgrades needed to support increased electrical capacity at peak times. These savings are passed on to DR program participants through rate reductions or other incentives.

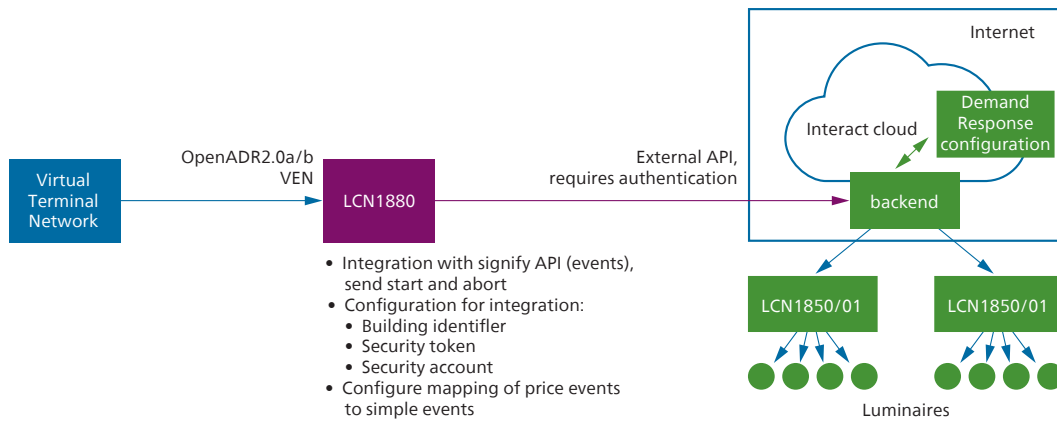
Features and benefits

- OpenADR 2.0b certified virtual end node
- Certified by the California Energy Commission to meet the requirements of the 2022 Energy Code (Title 24, Part 6 of the California Code of Regulations)
- Realize reduce energy costs and cash incentives by participating in utility based demand management programs
- Flexible security model that includes such technologies as TLS 1.2 and PKI/security certificates tested to DoD standards
- Interact Ready
- Designed to be used with the LCN1850/05 Wireless Gateway
- Lightweight and compact

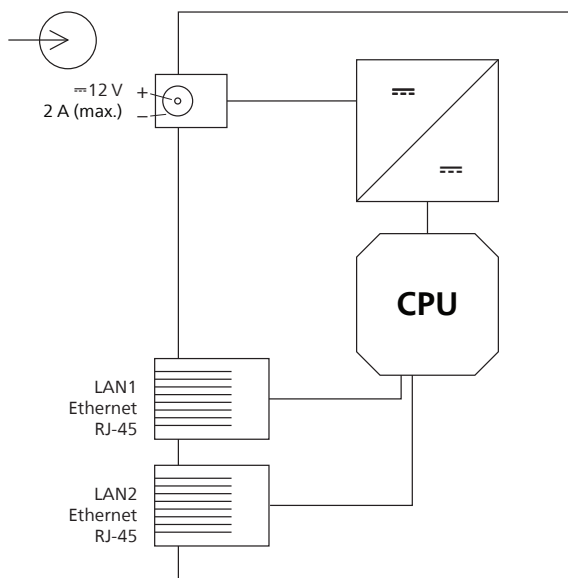
Dimensions



Application area



Electrical diagram



Specifications

Electrical

Supply options

Commercial grade regulated power supply	In: 100 to 240 V _{ac} , 50/60 Hz Out: 12 V _{dc} Class 2/SELV; 2 A
Power consumption	Max. 24 W
Communication ports	2 x 10/100 BaseT Ethernet port
Supported Ethernet protocols	IPv4, TCP, UDP, MQTT

Connector type

Supply in	1 x DC plug 5.5 mm (0.2 in) ⌀⌀
Ethernet	RJ45

Housing

Material	ABS
Flamability rating	V0
Color	Black
Dimensions (length, width, height)	251 x 143 x 57.2 mm (9.88 x 5.63 x 2.25 in)
Weight	1.16 kg (2.56 lb)

Environment

Temperature (ambient)	–20 to +45 °C (–4 to +113 °F)
Relative humidity (ambient)	0 to 90%, non-condensing
Temperature (storage)	–40 to +80 °C (–40 to +176 °F)
Relative humidity (storage)	0 to 90%, non-condensing

Compliances and approvals

Certifications	FCC, Open ADR 2.0b
Safety	UL60950-1 and CAN/CSA-C22.2 No. 60950-1-07
Environmental standard	RoHS, FCC



Packing Data

Type	Dimensions	Qty/Box	Material	Weight net	Weight gross
LCN1880 OpenADR Gateway	337 x 292 x 60.5 mm (13.3 x 11.5 x 2.38 in)	1	Cardboard	1.16 kg (2.56 lb)	1.36 kg (3.0 lb)

Ordering data

Type	MOQ	Ordering number	Region	Catalog code
LCN1880 OpenADR Gateway	1	9124 015 92519	North America	LCN1880

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