lumos
CONTROLS
A WISILICA BRAND

Iris E
WED-W-E
Edge Gateway

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FCC ID: 2AG4N-WED-W-E

CE | RoHS COMPLIANT | REACH COMPLIANT | Bluetooth

Iris E

Edge Gateway

CE | RoHS COMPLIANT | REACH COMPLIANT | DLC QPL LISTED | openADR ALLIANCE

Product overview

Lumos Controls Iris E facilitates the data flow between multiple Lumos controls BLE mesh networks and a BMS. It helps to set up two-way communication between the BMS and Lumos controls mesh networks. This enables Lumos Controls devices to respond to commands from the BMS system and BMS components like HVAC to respond to triggers from Lumos Controls sensors

Features

- Supports two-way communication between Lumos Controls Mesh networks and BMS
- Connects multiple Lumos Controls gateways to the BMS
- Network connectivity for Iris E can be established using Wi-Fi or ethernet
- Supports 2.4 and 5GHz Wi-Fi bands

Specifications

Electrical

Specifications	Value
Input voltage	5VDC
Input current	3A

Mechanical

Specifications	Value	Remarks
Dimensions	3.93 x 3.25 x 1.28in (100 x 82.7 x 32.5mm)	L x W x H
Net weight	143gm(5.04oz)	
Case material	SS	

Environmental

Specifications	Value
Operating temperature	0 to 50ºC (32 to 122ºF)
Case temperature	50ºC (122ºF)
Relative humidity	20-90%

Interface description

GREEN Device Status

Red Power Status

Power ON device with 5VDC Adapter

Ethernet

Ethernet LED color	Indication
Yellow	Initiating connection with network
Green	Data transfer

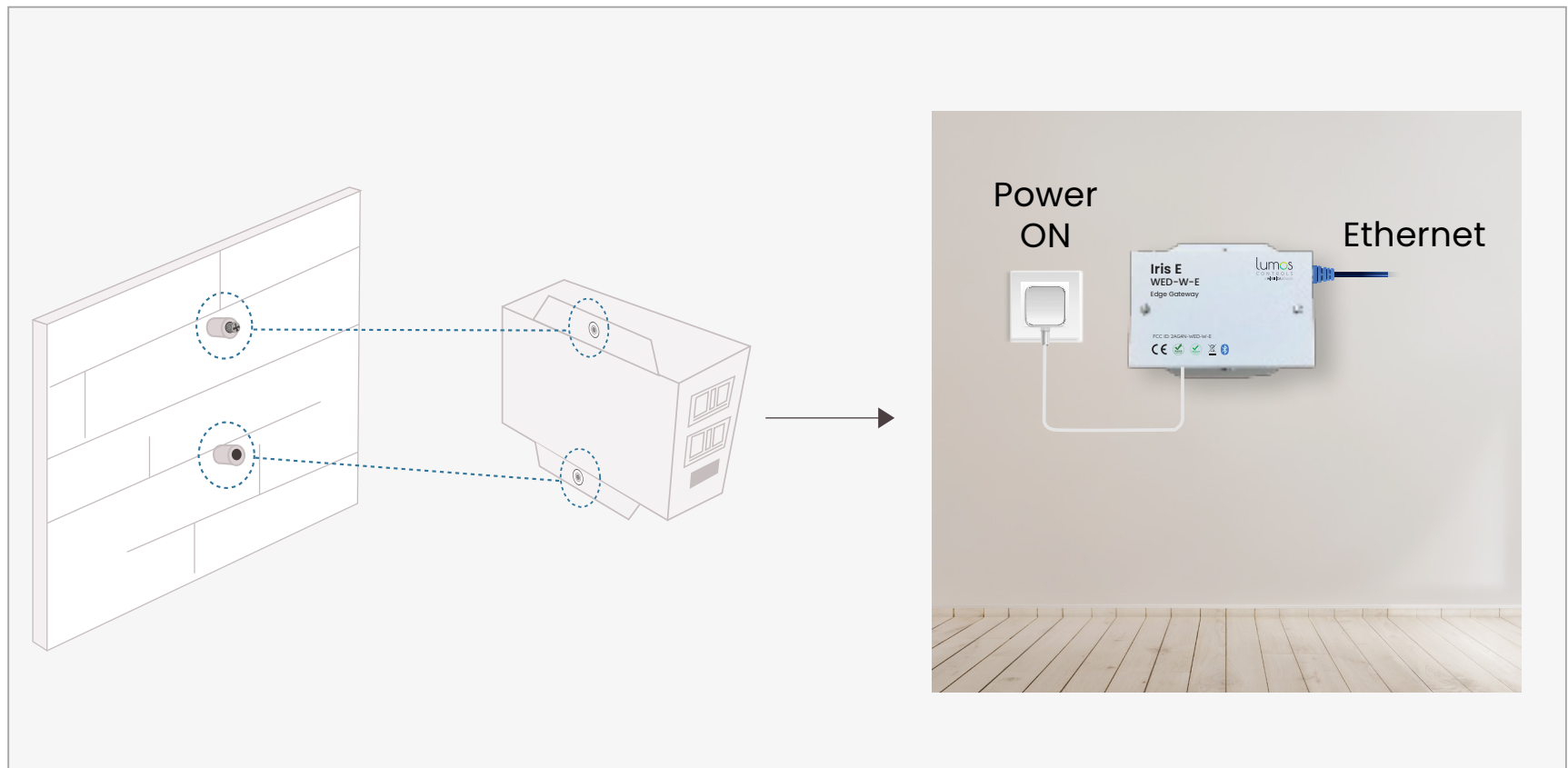## Light Blinking pattern

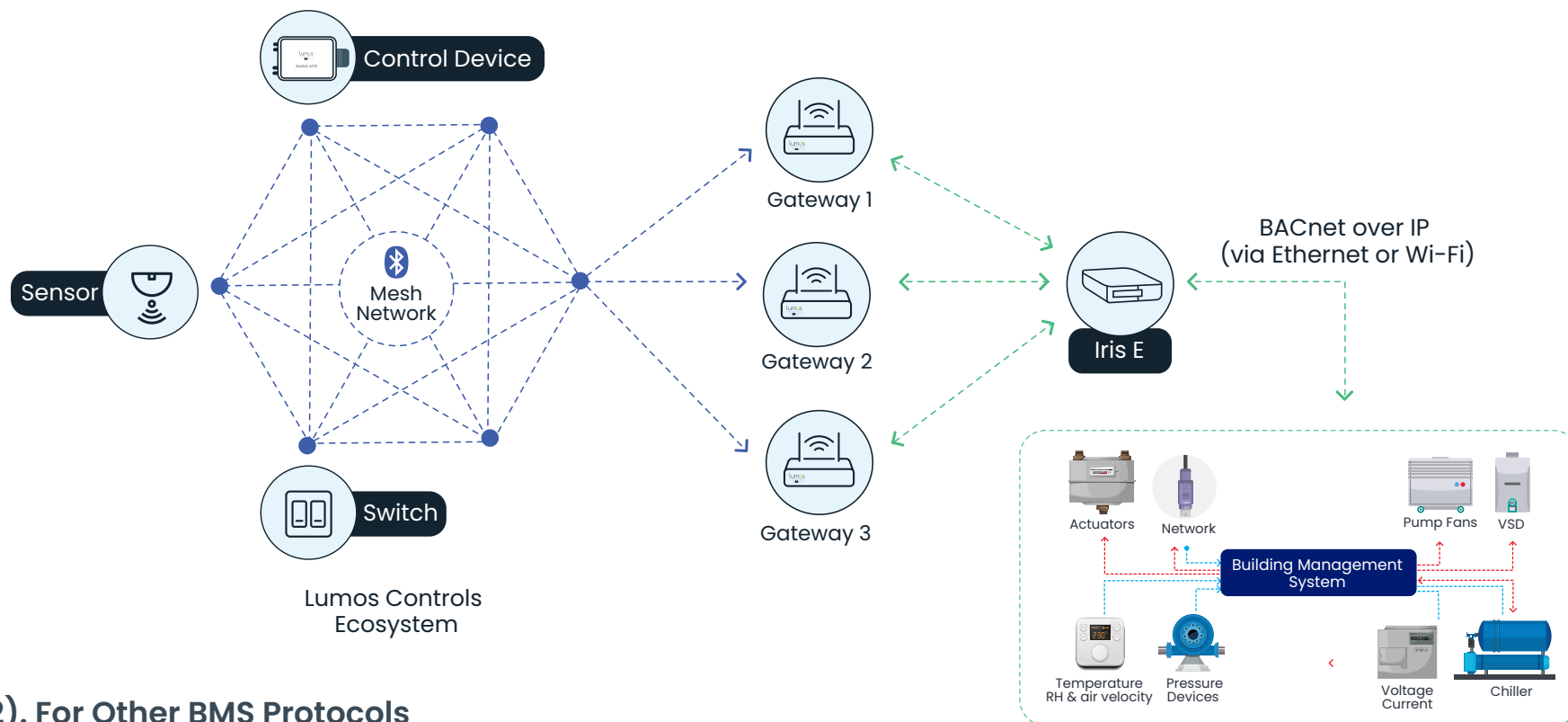The light blinking status enables users to know the current state of the device.

Iris E State	LED pattern	
Initializing	Solid ON	
Configuration Mode	100ms ON	100ms OFF
Unconfigured/Invalid configuration	500ms ON	500ms OFF
Waiting for IP	1sec ON	1sec OFF
Time not configured	3sec ON	3sec OFF
Critical Error	Fast blink	
Device Ready to use	5sec ON	5sec OFF

Installation

Power ON   Ethernet

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Lumos Controls BMS integration

1). For BACnet Protocols

Control Device

Sensor

Mesh Network

Switch

Lumos Controls Ecosystem

Gateway 1

Gateway 2

Gateway 3

Iris E

BACnet over IP
(via Ethernet or Wi-Fi)

Actuators

Network

Pump Fans

VSD

Building Management System

Temperature RH & air velocity

Pressure Devices

Voltage Current

Chiller

2). For Other BMS Protocols

Control Device

Sensor

Mesh Network

Switch

Lumos Controls Ecosystem

Gateway 1

Gateway 2

Gateway 3

Iris E

Ethernet

niagara framework®

Any BMS Protocol

BMS Controller

Actuators

Network

Pump Fans

VSD

Building Management System

Temperature RH & air velocity

Pressure Devices

Voltage Current

Chiller
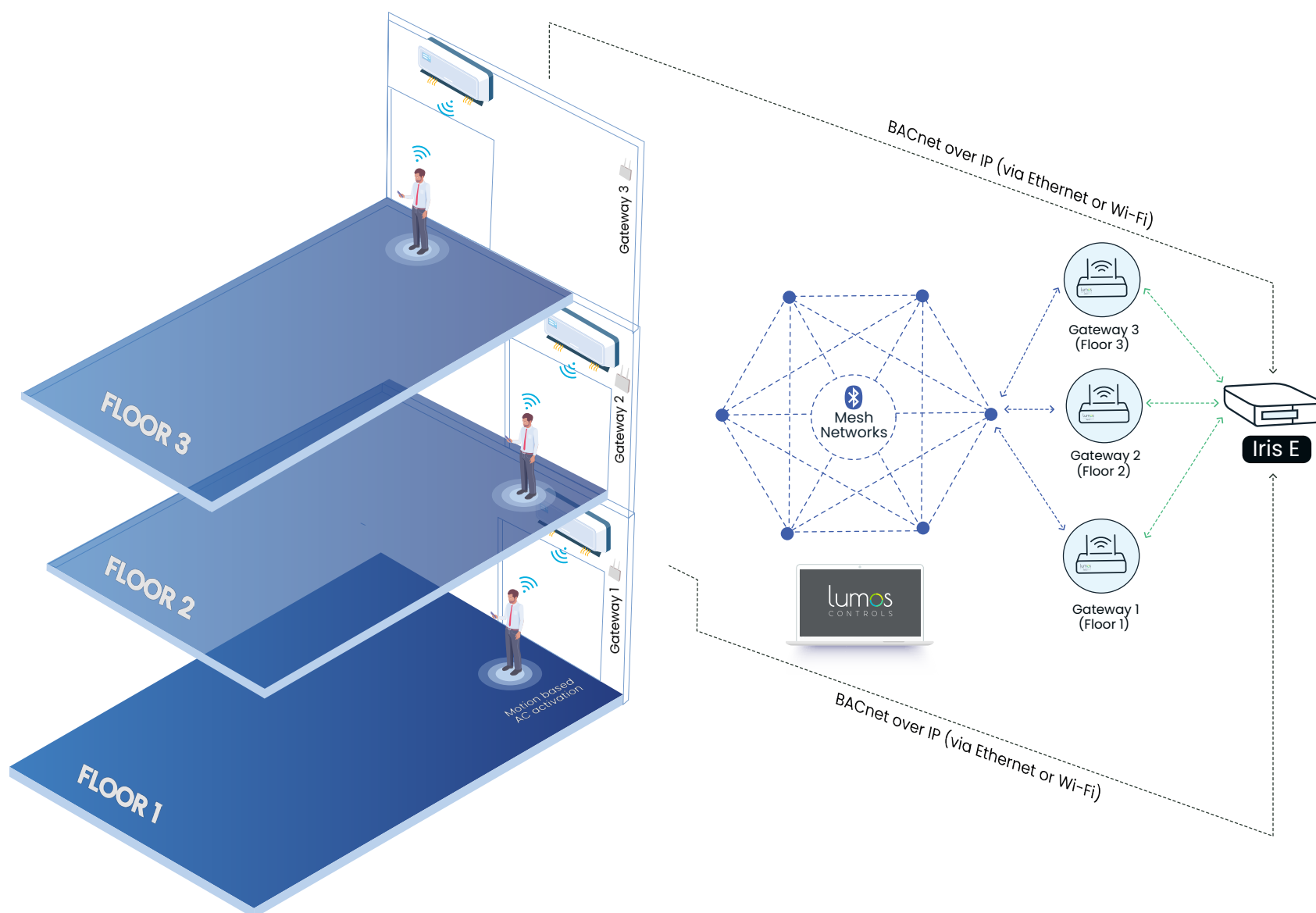
Lumos Controls leverages the Niagara framework to seamlessly integrate with 120+ popular BMS protocols.

Certifications	Details
CE	
RoHS 2.0	
REACH	In Progress
WEEE	
FCC	

Iris E application diagram

1). For BACnet Protocols

2). For Other BMS Protocols
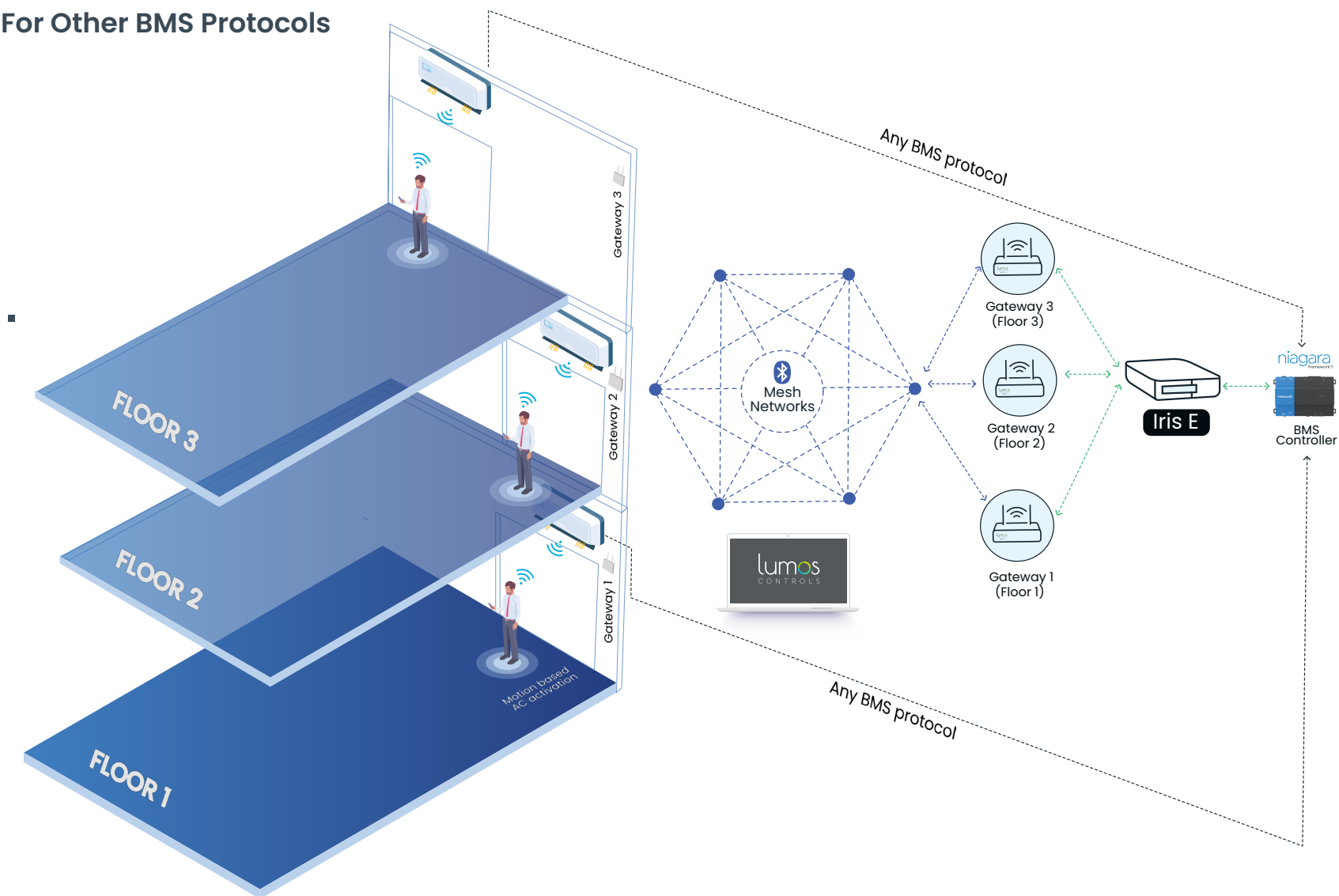
Items included in the package box

- Iris E
- User manual
- Adapter
- Screws

Ordering information

Product Code	Product Name	Product Description	Communication	Voltage Rating
WED-W-E	Iris E	Edge Gateway	WiFi or Ethernet	5VDC/3A

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ISO/IEC 27001:2013
Information security certified

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