



Type(s)
Project
Date
Notes

GENERAL INFORMATION

The O3-Edge provides networked control of Echoflex products. System capabilities like Timed Control, Demand Response, and Manual Override come standard. The O3-Edge includes native BACnet capabilities, allowing an Echoflex system to share status and control with building energy management systems (BEMS).

The heart of the system is the O3-Coordinator. It unlocks the feature set of the O3 - Echoflex system. The O3-Repeater communicates with Echoflex power controllers like the LED Fixture Controller (ELED1) to send system commands and receive status. The O3-Sensor merges message input from Echoflex Sensors, Switches, and other input like Contact Interfaces to allow their inputs to be used across the network.

APPLICATIONS

- Complete Echoflex system scheduling for facilities or campuses
- System-wide Demand Response activation
- Real-time sensor data monitoring for sharing with power controllers
- Building Energy Management Systems integration

FEATURES

- O3-Coordinator can publish scheduled events, demand response commands, and manual overrides across a network of O3-Repeaters and O3-Sensors
- Support for 32 channels, input from, or output to Echoflex wireless devices
- Dual Ethernet connection for daisy-chaining in large spaces; provides pass-through communication even during power outages
- Available in white or black finishes

ORDERING INFORMATION

Echoflex O3-Edge Models

MODEL	DESCRIPTION
O3-Coordinator	The Coordinator is the interface for adding scheduling and demand response to your Echoflex projects.
O3-Repeater	The Repeater networks the commands provided by the Coordinator, transmitting them to power controllers across a facility or campus.
O3-Sensor	The Sensor allows the status of remote sensors and stations to be shared across a network to update control devices located elsewhere.

SPECIFICATIONS

HARDWARE

- 24 VDC (20-28 VDC), 2 W typical, 10 W max, Class 2
- Removable screw-type terminal connectors
- Up to 2 dry contact inputs
- Technology:
 - ARM® Cortex®-A7 MPU + Cortex-M4 MCU
 - 256 DDR3L RAM
 - 4 GB eMMC flash memory
 - Real-time clock (RTC) with supercapacitor power backup

COMMUNICATIONS

- 902 MHz (U) radio frequency
- Wireless range of up to 24 m (80 ft) - commercial office spaces (typical), up to 100 m (330 ft) line of sight
- Integrated whip antenna
- Dual Ethernet (10/100Base-T)
- BACnet (BACnet/IP, BACnet/Ethernet, BACnet/SC)

ENVIRONMENTAL

- Operating temperature: 0°C to 45°C (32°F to 113°F) ambient
- Relative humidity: 10–95% non-condensing
- Indoor use only

REGULATORY AND COMPLIANCE

- cULus 916 Listed
- FCC/IC
- NCC (in progress)

PHYSICAL

O3-Edge Weight and Dimensions†

MODEL	HEIGHT		WIDTH		DEPTH		WEIGHT	
	mm	in	mm	in	mm	in	g	oz
O3 Edge	180	7.1	180	7.1	41.2	1.62	350	12.32

†Note: Mounts in typical flush-mount North American style two-gang electrical boxes, minimum depth 50 mm (2.0 in)

