

# Avi-on BACnet Link

## Local Interface to Building Control Systems

**Two-Way Communication**  
Creates two-way communication over local Ethernet to building control systems using BACnet over IP

**Highly Scalable**  
Support thousands of connection points using a single BCS Link

**No Gateways Required**  
The Avi-on ecosystem is gateway-free

**Simple Set Up**  
The BCS Bridge is easy to install and configure using a Windows application

**LED Indicators**  
Power, Network, and Update LED indicators for visual device status.



### Description

The BCS Link interfaces between Building Control Systems via BACnet IP to provide two-way building control integration. An internet connection to the cloud is not required.

## Supported Data Types

### Data Export:

#### Device Status

Send real time device status and dimming level changes from any Avi-on device

#### Motion Triggers

Send an update to the BCS any time a motion sensor is triggered

#### Daylight Values

Send an update to the BCS anytime a daylight sensor updates the dimming level on a group of lights

#### Fixture Energy Consumption Data

Send energy consumption data to the BCS every 15 minutes on all data points enabled with the appropriate energy monitoring Avi-on fixture controller (AVI-IFAC and AVI-XFAC)

### Control Inputs:

#### On/Off/Dim

Adjust dimming levels or on/off status to groups of lights or individual lights, trigger scenes

#### Special Schedules

Turn on and off devices for groups or individual devices for special holiday or override schedules.

#### Demand Response

Enable pre-programmed demand response modes from a BCS trigger

#### Emergency Mode Triggers

Trigger emergency lighting mode in emergency circuits from a BCS (or any BACnet IP compatible) control signal

Project		Location/ Type	
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# Ordering Information

Part Number	Name	Description
AVI-BACnet-01	Avi-on BACnet Link	Interface Avi-on network data and control commands to BACnet over IP. One per network up to 2000 nodes. Add additional links for larger networks.

To order please contact Avi-on sales at **(877) AVION-US**, (877) 284-6687 or [prosales@avi-on.com](mailto:prosales@avi-on.com) for information on becoming an Avi-on partner and order details.

# Specifications

**Input Voltage:** 24VDC  
(Includes 110-240 VAC Power Supply)

**Power Consumption:** 500mA @24VDC

**Network Interface:** Ethernet 10/100/1000

**Network Port:** RJ-45/ Cat 5

**Interface points:** Approximately 2000 per Bridge  
(Depends on Traffic Volume)

**Operating System:** Windows OS

**Internet Connection:** Required during configuration on the configuration computer, not needed during operation. BCS-Internet connection not required

**Local Network :** Ethernet

**Dimensions:** 5" (128mm) X 5.1" (130mm) x 1.2" (30mm)

**Operating Temperature:** -32°F to 113°F (0°C to 45°C)

**Storage Temperature:** -4°F to 140°F (0°C to 60°C)

**Relative Humidity:** 95% non-condensing

**Warranty:** 5 years

**Device Discovery:** BACnet Application Specific Controller (B-ASC), Annex L

**Data Link Layer:** BACnet IP (Annex J)

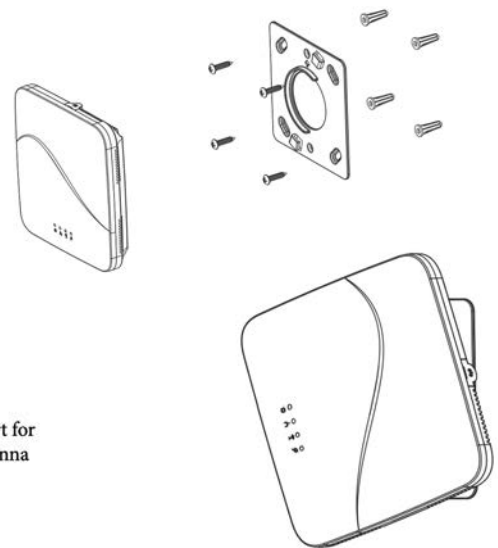
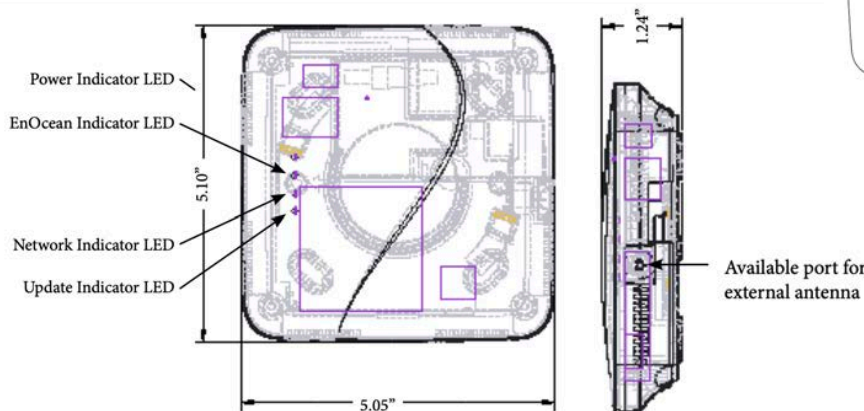
**Supported Message Types:** See User Guide

**USA FCC:** 2AFZI-AVI1010B

**Canada IC:** 20544-AVI1010B

**BQB:** DID: D031801  
Qualified Design ID: 86303

# Case Dimensions (Excluding Bluetooth Dongle)



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