

## Remote Access Bridge (RAB)

# Secure Remote Access for Smaller Size Avi-on Bluetooth® Lighting Installations



The Avi-on Remote Access Bridge (RAB) provides remote 24/7 access to Avi-on Bluetooth Lighting Control Systems

### **Remote System Monitoring**

The RAB bridges between the Avi-on Cloud and Avi-on Bluetooth Lighting Control local Bluetooth Network, allowing remote commissioning, updates, troubleshooting, and control from the Avi-on mobile app or Avi-on Pro. Also supports energy monitoring with appropriate Avi-on end points

#### **Suited for Small Locations**

The Avi-on Wifi RAB provides low cost remote connectivity for locations with 50 devices or less that have simple wifi network environments. For larger installations, where a more complex corporate managed IT environment exists, use the AVI-RAB-LTE.

### **Highly Secure**

- All traffic is HTTPs encrypted. Passwords use SHA256 or better.
- Remote Access Bridge passwords are unique and not available to users or factory.
- No VPN required, works with standard corporate firewall (assuming required ports are open)
- No way to connect to Bridge from outside with methods that can load malicious firmware (e.g. SSH, Telnet). Restricted access even inside local network, even if you have a password.
- Ports used: 80 (HTTP, Ping only),443 (HTTPS), 5671&5672 (AQMP)

### **Not A Gateway**

The Avi-on bridge is not a gateway. It acts as a link between the Avi-on cloud and the local bluetooth network. Only a single RAB is used per location. There is no need to apply multiple per location (Use a single AVI-RAB-LTE for larger locations)

Project	Location/ Type	



### **ORDERING INFORMATION**

Select a part number from the table listed below.

Part Number	Description	Plug Type	Supply Voltage
2001RAB-01-C	Remote Access Bridge (50 or less BLE Node Capacity)	Type A Plug	120/240 VAC, 50/60 Hz

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

### **SPECIFICATIONS**

### **Electrical**

Input Voltage Specifications	Min	Max	Unit
Supply Voltage	110	240	V
Mains Frequency	-	50/60	Hz
Operating Current	17	200	mA

System Communications	Min	Max	Unit
Bluetooth Signal Frequency	2402	2480	MHz
Bluetooth Wireless Range	-	70*	Feet
Wi-Fi Signal Frequency (2.4GHz only)	2412	2472	MHz
Wi-Fi Wireless Range	10*	50*	Feet

<sup>\*</sup> Actual results may vary, depending on local environment

Environmental Specifications	Min	Max	Unit
Ambient Operating Temperature	0	40	°C
Storage Temperature	-30	45	°C

### Case Dimensions (Excluding Type A Plug)

Part	Length	Width	Height
All	2.17" (55 mm)	1.57" (40 mm)	1.38" (35 mm)

### **Supported Wifi Security Protocols**

Security Protocol
WPA Personal
WPA Personal with Fixed IP Address

#### Certifications

Regulatory	Description
USA	FCC: 2AFZI-2001RAB
UL	I.T.E. E486012
Canada	IC: 20544-2001RAB
BQB	DID: D031800 Qualified Design ID: 85750



### **PRODUCT DIAGRAMS**

The Avi-on Remote Access Bridge is designed in a small form factor (2.17" (55 mm) x 1.57" (40 mm) x 1.38" (35 mm)) and functions in any standard type A outlet running 110/240 VAC, 50/60Hz.

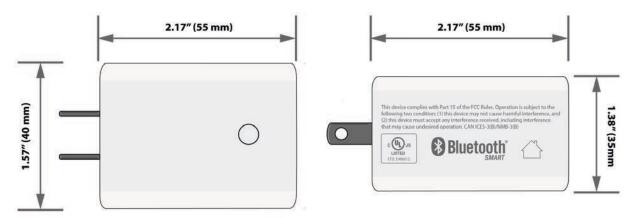


Figure 1. Avi-on Remote Access Bridge (RAB)

