Hubbell Building Automation’s wiHUBB™ Wireless Distributed Lighting Control System is a secure peer-to-peer, self-organizing and self-healing mesh network of fixtures, modules, occupancy/vacancy sensors, daylight harvesting sensors and switch stations designed specifically for lighting applications.

The wiHUBB system utilizes SNAP (Synapse Network Appliance Protocol) to create a peer-to-peer, self-organizing and self-healing mesh network infrastructure. All wireless devices within the wiHUBB mesh network are peer devices with each other and act as repeaters by forwarding messages not for them on to devices that may be out of range of the device that originated the message — providing for a virtually unlimited network size.

The wiHUBB mesh network is self-organizing — it builds automatically. There is no need for a coordinator, which can be a single point of failure. The wiHUBB network is also self-healing — devices will automatically reroute messages around a failed device to ensure message delivery.

Secure Messaging
All messages within the wiHUBB network are secure. When transmitting over the air each wireless wiHUBB device uses AES-128 (Advanced Encryption Standard) security. AES is a powerful and secure encryption method used in many data security applications. It is the same encryption method used by the U.S. Government for secure transmissions. The wiHUBB system also uses the secure HTTP/SSL protocol when users access the wiHUBB network using their Internet browser.

Long Range Radio Coverage
The wiHUBB devices communicate with each other on the robust and reliable 802.15.4 (902MHz – 928MHz ISM band). In comparison to wireless networks that use 2.4GHz devices, 900MHz devices have a longer range and are least affected by propagation losses and physical obstructions (penetration, diffraction and reflection).

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Access the wiHUBB Network from Anywhere at Any Time
The wiHUBB system features SmartPORTs that provide plug and play support for non-wiHUBB occupancy sensors, daylight sensors and switch stations. When devices are plugged into the SmartPORTs wiHUBB automatically and intelligently responds to the plugged-in devices to provide the most energy efficient operation.

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All switches mount to standard single or multiple switch boxes. All switches receive in standard single or multiplex wall boxes. wiHUBB P4 plug and play integration with wiHUBB Smart Pack.

Networking Lighting Controls | Occupancy/Vacancy Sensors | Daylight Controls | Wireless Distributed Lighting Controls

Smart Pack
Smart Pack: Single or dual relay versions for On/Off or Raise/Lower, 10VDC interface for full range dimming, Monitors and measures energy consumption and temperature, Non-volatile memory for sensor settings, Intelligently self-adaptive technology — intelligently responds to the plugged-in devices to provide the most energy efficient operation.

Networking Lighting Controls
High Bay Controls | Occupancy/Vacancy Sensors | Daylight Controls | Wireless Distributed Lighting Controls

Networked lighting provides the ability to control lighting remotely. Hubbell Building Automation’s wiHUBB™ Wireless Distributed Lighting Control System is a secure peer-to-peer, self-organizing and self-healing mesh network of fixtures, modules, occupancy/vacancy sensors, daylight harvesting sensors and switch stations designed specifically for lighting applications.
### Why Wireless?

Easy-to-Refit – HBA’s wiHUBB wireless lighting controls can be easily added to existing lighting systems without having to worry about changing existing wiring. This is especially important when dealing with the wiring challenges associated with hard ceilings or outdoor lighting. The wiHUBB fixture control modules can be easily added to existing indoor or outdoor fixtures to provide individual fixture control without having to rewire circuits!

Flexibility – HBA’s wiHUBB wireless lighting controls provide the ability to change fixture and fixture location at anytime based on your lighting and control requirements. With the HBA wiHUBB system you can configure and control individual devices and groups of devices including indoor and outdoor lighting fixtures, occupancy sensors, daylight sensors, and switch stations over the air with the click of a mouse.

Cost Savings – Eliminate costs and increase savings.

In a typical wired lighting control system, control signals traversing low voltage communication wires, HBA’s wiHUBB devices communicate through the air utilizing radio frequency (RF) waves – eliminating the need for expensive dedicated control wiring and their installation labor costs. The HBA wiHUBB system increases energy savings by automatically and intelligently configuring itself to provide the most energy efficient operation.

### Wireless Comes to Light™

As the cost of energy continues to escalate, the value of indoor and outdoor lighting solutions which capitalize on both energy-efficient lighting technologies and aggressive energy saving control strategies, continues to grow. The use of wireless technology is one of the most exciting frontiers in lighting control, offering significant benefits over traditional wired solutions for both existing buildings and new construction!

Hubbell Building Automation’s wiHUBB™ Wireless Distributed Lighting Control System provides wireless controls for both indoor and outdoor lighting applications.

### Applications

<table>
<thead>
<tr>
<th>Indoor Facility Lighting</th>
<th>Parking Garage Lighting</th>
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<tbody>
<tr>
<td>• Easy switch options available: ON/Off, Dimming, 2x DDC, 4x DDC, 8x DDC</td>
<td>• Single or dual relay versions for ON/Off or low/medium control</td>
</tr>
<tr>
<td>- On-Fixture Module</td>
<td>- Replaces standard Twist lock Photo Sensors</td>
</tr>
<tr>
<td>• In-Fixture or On-Fixture Modules installed in or on lighting fixtures</td>
<td>• SmartPORT Plug and play support for wiHUBB occupancy sensors, daylight sensors, and switches</td>
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<tr>
<td>• On-Fixture Module</td>
<td>• Monitors and measures energy consumption and temperature</td>
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<tr>
<td>• Occupancy/Vacancy Pack</td>
<td>• Single or dual relay versions for ON/Off or high control</td>
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<tr>
<td>• Daylight Harvesting</td>
<td>• 10VDC interface for full range dimming</td>
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<tr>
<td>• In-Fixture Module</td>
<td>• Monitors and maximums light levels</td>
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<td>• On-Fixture Module</td>
<td>• Wireless comfort for full range dimming</td>
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<td>• Smart Pack</td>
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<tr>
<td>• Access Point</td>
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**wiHUBB™**

- Hubbell-automation.com
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**Wi diHUBB™**

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**Why Wireless?**

- Easy-to-Refit
- Flexibility
- Cost Savings

**Applications**

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**Features**

- **Access Point**
  - Work-based commissioning and monitoring of the wiHUBB network
  - Integrated with web-enabled browsers
  - Easy access from any local network or Internet
  - Simple and easy-to-use Graphic User Interface (GUI)
  - Ability to schedule and manage wiHUBB-enabled devices and groups of devices

- **Occupancy/Vacancy**
  - RJ, Ultrasonic & Dual Tech Sensors
  - SmartPORT™ self-adaptive technology: no manual adjustment required
  - Non-volatile memory for sensor settings
  - SmartHUB™ Plug-and-play integrated with wiHUBB Smart Pack

- **Daylight Harvesting**
  - Open loop operation
  - Mounts vertically or horizontally
  - Architecturally attractive design
  - Non-volatile memory for sensor settings
  - SmartHUB™ Plug-and-play integrated with wiHUBB Smart Pack

- **Switch, Stations**
  - Multiple switch options available: ON/Off, Dimming, 2x DDC, 4x DDC, 8x DDC
  - All switches mount to standard single or multi-gang wall boxes
  - SmartHUB™ Plug and play integration with wiHUBB Smart Pack

- **On-Fixture Module**
  - Single or dual relay versions for ON/Off or low/medium control
  - 10VDC interface for full range dimming
  - SmartHUB™ Plug and play support for wiHUBB occupancy sensors, daylight sensors, and switches
  - Monitors and measures energy consumption and temperature

- **In-Fixture Module**
  - Single or dual relay versions for ON/Off or high control
  - 10VDC interface for full range dimming
  - SmartHUB™ Plug and play support for wiHUBB occupancy sensors, daylight sensors, and switches
  - Monitors and measures energy consumption and temperature

**Wireless Comes to Light™**

As the cost of energy continues to escalate, the value of indoor and outdoor lighting solutions which capitalize on both energy-efficient lighting technologies and aggressive energy saving control strategies, continues to grow. The use of wireless technology is one of the most exciting frontiers in lighting control, offering significant benefits over traditional wired solutions for both existing buildings and new construction! Hubbell Building Automation’s wiHUBB™ Wireless Distributed Lighting Control System provides wireless controls for both indoor and outdoor lighting applications.