

ENSURE360 EXTENDER

The Extender is the wireless access point and backbone of the Ensure360SM system. The Extender network, with the Director being the wireless emergency call coordinator, forms a dedicated Zigbee self-forming and healing mesh network for emergency call transportation. It also connects to a WiFi backbone for high-speed data transfer for the remainder of its functions. The Zigbee emergency call network routes signals back to the Director using the fastest possible path. The Extender features a built-in light ring for easy status indication and backup batteries in the event of power loss.



The Director is physically the same as an Extender, except that it is connected directly to a Headend via a Cat5 or 6 cable and acts as the Zigbee coordinator.

Installation Instructions

Indoor:

1. Note: Install the Extender ~10' from other access points
2. Remove the Extender and mounting ring from the packaging
3. Plug the power brick into the outlet and pull the power cable through the hole in the mounting ring
4. Secure the mounting ring to:
 - A 4x4 box with the screws for the 4x4, or
 - A drop ceiling with the provided wing nuts, or
 - A hard lid ceiling with wall dogs
5. Connect the power cable to the

SENTRICS.

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- barrel port on the Extender and flip the power switch to 'On'
6. Line up the indentation on the Extender and mounting plate and turn clockwise to lock in place
 7. Step back and take in the view

Outdoor:

1. Note: Connect AC power run to a Sentric-provided NEMA outdoor enclosure
2. Remove the Extender and mounting ring from the packaging
3. Using Velcro, secure mounting ring to the inside of the NEMA outdoor enclosure
4. Plug the power brick into the AC socket inside the outdoor enclosure
5. Plug the power cable into the Extender and feed the cable through the wire guide on the Extender, flip the power switch to 'On'
6. Line up the indentation on the Extender and mounting plate and turn clockwise to lock in place
7. Step back and take in the view

Additional Information

The Extender can be powered by PoE, please see Technical Specifications for more information. The Extender is not intended to be opened in the field. If you have any questions about the Extender or Ensure360, please contact Technical Support.

Do NOT use power bricks or cables that are not provided by Sentric

Technical Specifications

Power supply: Input: [100-240vAC 50/60Hz 1A], Output: [12vDC 2A]

WiFi: 802.11 b/g/n 2.4GHz with WPA2-PSK AES security/encryption

PoE: Class 3 802.3af, minimum 15W (48vDC) per port

Troubleshooting/Light Ring patterns

Booting:

- Normal boot: blue chasing circle at 100%
- Dragging boot: yellow chasing circle at 100%
- Interminable boot: red chasing circle at 100%

On Battery Power: red heartbeat every 10 seconds at 20%

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Network States:

- WiFi:
 - Connected: off
 - Not connected: purple flash at 100%
- Zigbee:
 - Connected: off
 - Not connected: red flash at 100%

Idle: solid blue at 30%

Parts:

- Extender - Wireless infrastructure access point for Ensure360 system, includes Link access point, installed backup batteries, power supply, mounting ring and hardware
- 303003-PS - power supply (8' cable)
- 604103 - mounting ring
- Extender.Box - weatherproof enclosure for outdoor Extenders

THE ENSURE360 SOLUTION

Ensure360 is the perfect combination of Real-Time Location System (RTLS), environmental sensors, wearables, motion detectors, and traditional emergency call equipment designed to create a bubble of protection for your residents. The system, comprised of: a Headend server, a Desk console, a wireless mesh network made up of Extender access points, the Director network coordinator, and an array of Locator location beacons, will communicate with various end devices around the community to create a modular system to fit your needs! The end devices for Ensure360 include: the Pendant for tracking resident and staff location and providing a way to call for help from anywhere, the corded Pull Station, the touch pad Push Station, the Universal Transmitter with 2 dry contacts, and the Motion Sensor. Ensure360 will provide you with the most powerful emergency call system you've ever used.