

IPX Endpoints

Product Overview

Attractive high-resolution audio-visual IP endpoints that take end-user Unified Communication investments beyond desktop.

Integration and Compatibility Overview

Application Partners

AtlasIED IPX endpoints register as a communication endpoint directly within the following notification applications, supporting visual signaling, visual text and audio broadcast.

- AtlasIED GLOBALCOM® (GCK) v7.0 or later
- Singlewire InformaCast® Advanced v4.0 and later
- Singlewire InformaCast® Fusion v3.0 and later
- Syn-Apps Revolution® v2017.3.1 and later

SIP Connectivity

When not using 3rd party notification applications, such as InformaCast, Revolution, or GCK, AtlasIED IPX endpoints can register as SIP devices directly to a user's UC call manager allowing the IPX endpoints to receive a call just like an IP phone.

IPX is Cisco DevNet and Avaya DevConnect certified and supports the following call manager versions:

- Cisco – CUCM v9.0 – 12.5
- Cisco – CUCMBE
- Cisco – CME (Call Manager Express)
- Avaya – IP Office CMS
- Avaya – Aura CMS

Device Licensing

IPX works with several technology partners to provide a complete Unified Communication ecosystem. Licensing must be acquired by the application partner to whom the IPX endpoint(s) will be registered.

3rd Party Systems

AtlasIED IPX endpoints can collaborate with 3rd party systems by using one or more of the following methods of connectivity.

GPIO Connectivity - IPX endpoints include two General Purpose Inputs (GPI) and one output (relay) that can trigger or be triggered by other systems' contact closure such as:

1. Access Control
2. Security Cameras
3. Security Systems
4. Fire Alarm

Analog Audio Connectivity – IPX has local line level inputs that can be used for local sound reinforcement and outputs that can be used to push messages to existing audio systems. The Host Application is set as the priority source by default to ensure that critical alerts remain the priority no matter what currently active source is selected.

1. Classroom Multimedia Systems (AtlasLearn)
2. Existing Public Address Systems

Professional Audio Compliant - AtlasIED IP-to-analog gateways within the IPX series include a true "Balanced Line Level" output making connection to any amplifier or commercial analog system easy and noise free.

Network Requirements

IPX endpoints use standard TCP / IP Ethernet multicast enabled LAN or WAN connections to send and receive notifications.

1. IPX endpoint devices use IEEE 802.3 standard PoE implementation and are recommended to be used with any IEEE 802.3at (PoE+) 10/100Base-T switches supporting speeds of 10 to 100 Megabits or faster
2. IPX endpoints can be configured for either dynamic or static IP addressing
3. IPX endpoints support CAT5e and greater

Important Switch Considerations:

Most PoE+ capable switches cannot provide full 30-watts of power to all ports simultaneously. It is essential to verify the total amount of power available on each switch to calculate the maximum number of IPX endpoints it may support. **Example:** 370-watt switch / 30 watts per IPX = 12 IPX endpoints can be supported.

Superior Audio Notifications

Superb Intelligibility - Each IPX endpoint equipped with a speaker incorporates AtlasIED's patented 8" full-range coaxial driver with 3" tweeter. The driver was designed for optimal speech intelligibility.

Enhanced Audibility - AtlasIED IPX endpoints utilize professional audio processing to optimize audio quality for sending and receiving audio messages.

Wider Dynamic Range - The IPX series has been designed to support up to 44KHz sampling rate to meet requirements specifying high definition audio requests.

Enhanced Visual Notifications

Multiple Display Profiles – When using Singlewire's InformaCast® or Syn-Apps Revolution® notification applications, AtlasIED IPX endpoints equipped with LCD displays can have their display background colors sync'd to InformaCast® text and audio notification profiles. Customers can now display default color styles set for normal, warning and emergency notifications sending clear communication during any event.

ADA Compliant - AtlasIED IPX endpoints equipped with LCD displays do more than just show time and play tones. In the event of an emergency, the highly visible LCD clock becomes an LCD message board that meets ADA standards "Under Title II of the ADA, all state and local governments are required to take steps to ensure that their communications with people with disabilities are as effective as communications with others."

Multi-Color Flasher - AtlasIED has improved the flasher lumens and flash rate on its IPX "F" series models increasing its visual signaling to heighten the awareness of alerts in spaces that may be loud or accommodate hearing-impaired occupants.

Setup and Configurations Made Easy

IPX features and functions are configured within the application partner platform to whom the IPX endpoint(s) is registered. When the communication requirements exceed the functionality that the technology partner provides, the IPX series new WebUI (Web User Interface) can be used to make custom settings necessary to meet the installation requirements.

How IPX Endpoints Are Used

Ideal for Critical Alerts

Clear communication allows individuals to quickly and effectively respond to disasters, emergencies, and other crises. Have confidence that the emergency management plan can be executed effectively because all responsible parties will comprehend notifications.

- Reach both visually and hearing-impaired occupants
- Wayfinding
- Silent messaging
- Triggering events
- All clear messages
- Fire, Police or other critical notification
- Weather notifications

Failover (Survivability):

1. IPX endpoints support call manager publisher subscriber SIP service call processing failover. This service provides remote location call-processing redundancy when access to the centralized call manager is interrupted because of a WAN outage. In a Cisco UMC environment, IPX endpoints can register to either Cisco's basic or advanced 3rd party SIP device service for intercom or paging functionality. IPX must use Cisco's Advanced 3rd party SIP device service when registering to a publisher subscriber configuration.

- IPX endpoints can maintain basic paging functionality (as long as they have power) by using the IPX local line level inputs as a redundant solution even if the building's network is rendered inoperable.
- IPX endpoints provide the ability to store and play prerecorded audio files for, but not limited to, class-change notices, bells, signals, emergency evacuation tones or spoken emergency instructions in order to act as a redundant solution even if the building's network is rendered inoperable. The audio file can be launched using the IPX local general-purpose inputs or from one centralized button.

Covering Large Spaces

Power For More Speakers: IPX endpoints equipped with speakers can cover up to 1,200 sq. ft. AtlasIED IPX endpoint "PFMS" provides a connection for a secondary analog speaker connection when more coverage is needed.

Visual Notifications

Multiple Display Profiles – The following are examples of how display profiles can be utilized:

- Challenge:** Students or individuals who do not hear or are otherwise unaware that practice emergency preparedness drills are being conducted could incite fear or chaos if they engage in panic-induced behavior such as running, or screaming.

Solution: The LCD screen on certain IPX models can display background colors which indicate when the building is testing emergency preparedness drills, for example green, and can display a different background color, for example orange, when a true critical situation occurs.
- Challenge:** Hearing impaired individuals may need visual assistance to understand timely scheduled or emergency instructions, for example the beginning of class or fire drills.

Solution: The visual LCD display on some IPX models can display background colors or scrolling text to indicate scheduled or unscheduled messages. For example, when classes are scheduled to begin, the display can indicate a green background. When class ends, the background can change from green to blue. A red background can be used to indicate a critical or emergency alert.

Modernization Friendly

The AtlasIED IPX series "72 Model" endpoint options are the perfect solution for construction challenges. The IP-SDMF-72 and IP-SDM-72 can be installed connecting both an existing 25V/70.7V speaker wire from an active analog headend and newly installed network cable simultaneously. This allows the AtlasIED IPX series "72 Model" endpoints to pull time from the NTP server so the display shows time. Mean while the audio is fed from the current PA system, until the new notification appliance is installed at a later date.

