Syn-Apps enabled Paging Amplifier

CyberData
The IP Endpoint Company

The Syn-Apps enabled Paging Amplifier is a Power over Ethernet (802.3at) VoIP paging device and loud ringer for use in places that need loud paging. It provides an easy method for implementing an IP-based overhead paging system for your existing or new VoIP Phone system.

The Syn-Apps enabled Paging Amplifier can have one or two IP66 Analog Horns (011471) attached. See more details in the Operations Guide or under the **Installation** tab of the product webpage.

The optional 011471 IP66 Analog Horn is sold separately.

Features

- SIP Enhanced interoperability for hosted environments
- CyberData has maintained one of the most comprehensive list of IP PBX servers certified to work with CyberData
- Support for security code access for SIP paging
- Autoprovisioning via HTTPS
- HTTPS web based configuration
- Support for G.711 a-law, G.711u-law, G.722, and G.729 codecs
- 802.11q VLAN tagging
- Configurable event generation for device health and status monitoring
- SIP and Simultaneous Multicast
- Dual-speed ethernet 10/100 Mbps
- PoE 802.3at and 802.3af-enabled
- Line-out connector
- DTMF controlled relay
- Direct 8 Ohm speaker drive
- User-uploadable tones and messages
- Digital volume control
- Auto-call voice message from input port sense
- Can support one or two Analog Horns (#011471 IP66 Analog Horn sold separately)
- HTTP Command Interface
- 10 channel prioritized Multicast ports
- Built-in diagnostics
- Cisco SRST

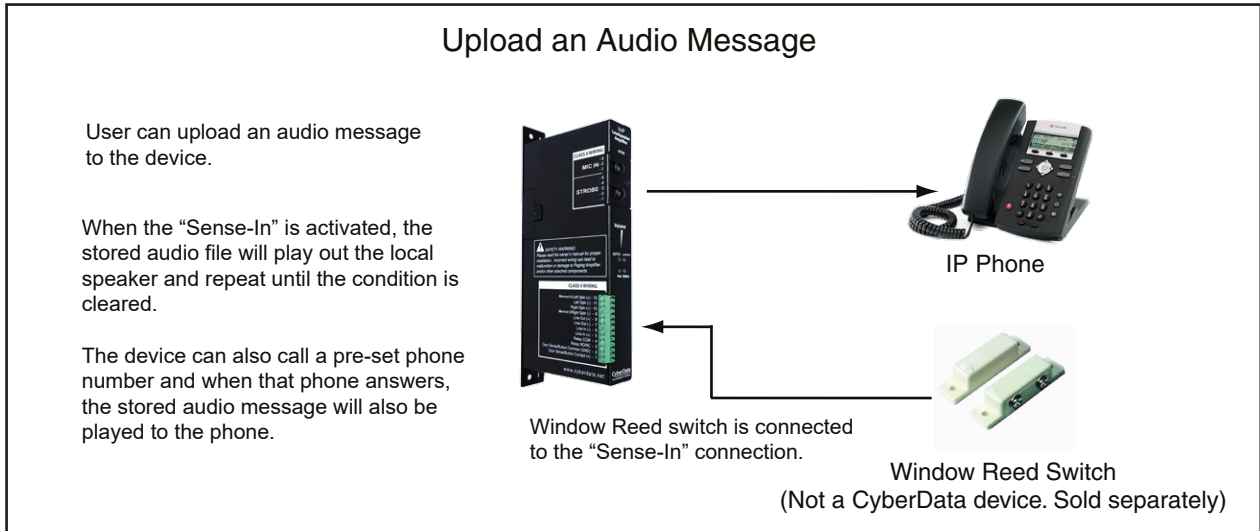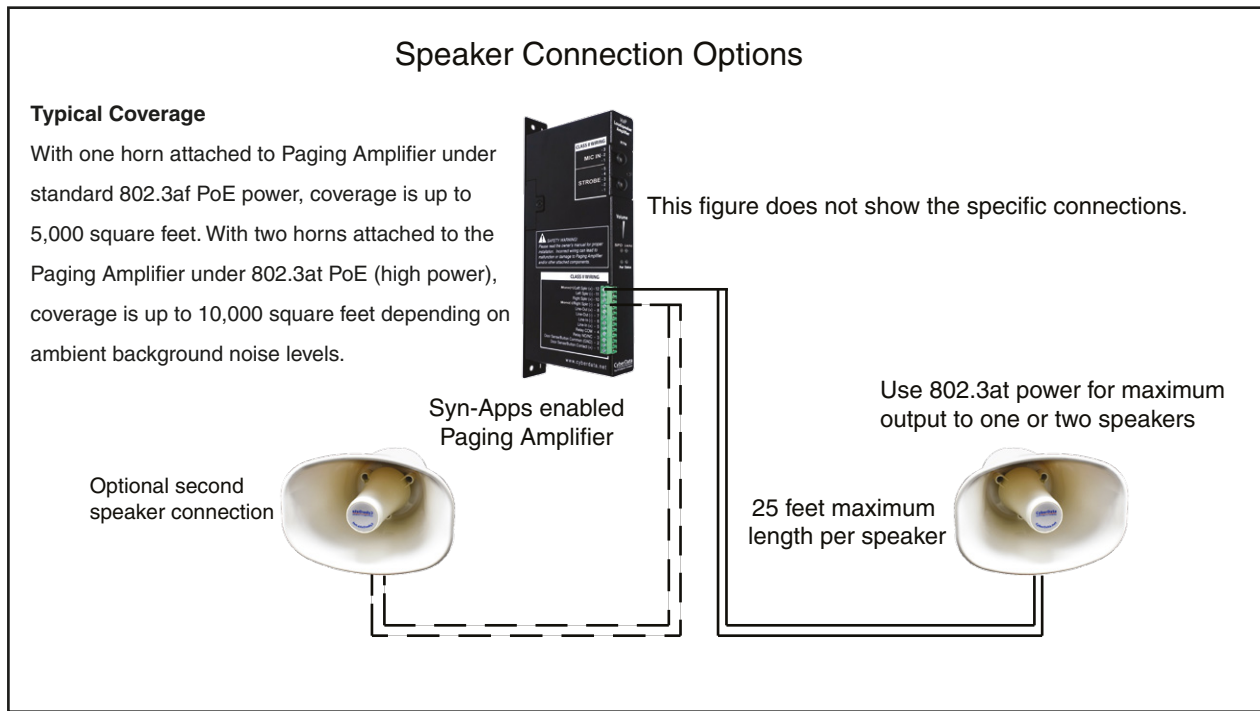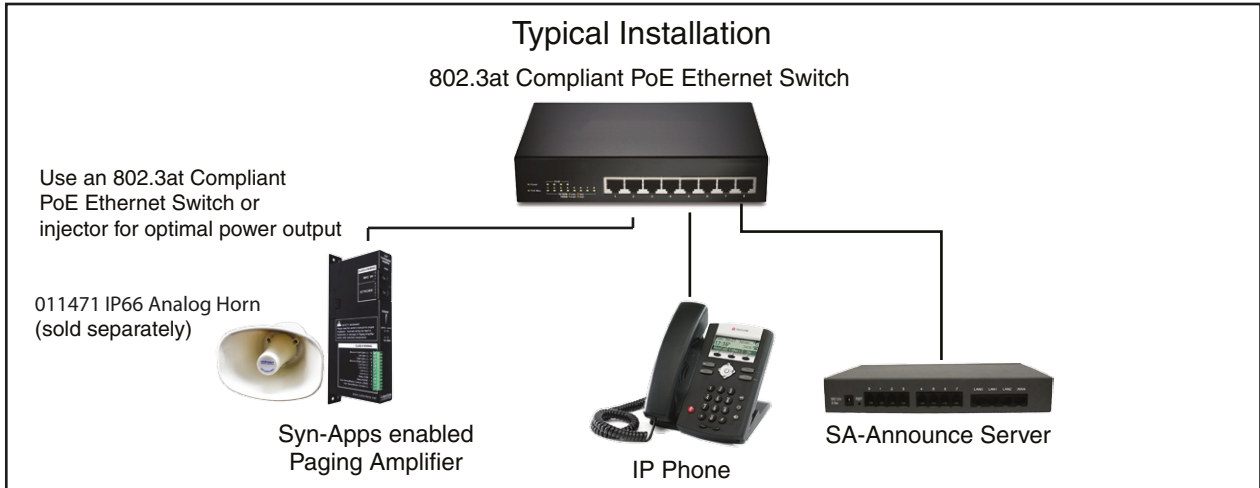| Specifications	
Ethernet I/F	10/100 Mbps
Protocol	SIP RFC 3261 Compatible or Syn-Apps SA-Announce
Power Input	PoE 802.3at or 802.3af
Audio Output	802.3at: 117.9 (+/- 0.2) dBC @1M and 1kHz* 802.3af: 115.1 (+/- 0.2) dBC @1M and 1kHz*
Line Out: Output Signal Amplitudes Output Level Total Harmonic Distortion Output Impedance	2.0 VPP maximum +2dBm nominal 0.5% maximum 10k Ohm
Operating Range	Temperature: -40^0 C to 55^0 C (-40^0 F to 131^0 F) Humidity: 5-95%, non-condensing
Storage Temperature Storage Altitude	Temperature: -40^0 C to 70^0 C (-40^0 F to 158^0 F) Up to 15,000 ft. (4573 m)
Payload Types	G.711 a-law, G.711u-law, G.722, and G.729 codecs
Dimensions**	1.042 in. [26.5 mm] Length 3.295 in. [83.7 mm] Width 7.795 in. [198.0 mm] Height
Weight Boxed Weight	1.4 lbs. [0.63 kg] 2.0 lbs. [0.90 kg]
Compliance	CE; EMC Directive – Class A EN 55032 & EN 55024, LV Safety Directive – EN 60950-1, RoHS Compliant, FCC; Part 15 Class A, Industry Canada; ICES-3 Class A, IEEE 802.3 Compliant
Warranty	2 Years Limited
Part Number	011411
Horn Part Number	011471

*When used with the optional 011471 IP66 Analog Horn (sold separately).
**Dimensions are measured from the perspective of the product being upright with the front of the product facing you.

Syn-Apps enabled Paging Amplifier

Typical Installation

802.3at Compliant PoE Ethernet Switch

Use an 802.3at Compliant
PoE Ethernet Switch or
injector for optimal power output

011471 IP66 Analog Horn
(sold separately)

Syn-Apps enabled
Paging Amplifier

IP Phone

SA-Announce Server

Speaker Connection Options

Typical Coverage

With one horn attached to Paging Amplifier under standard 802.3af PoE power, coverage is up to 5,000 square feet. With two horns attached to the Paging Amplifier under 802.3at PoE (high power), coverage is up to 10,000 square feet depending on ambient background noise levels.

This figure does not show the specific connections.

Syn-Apps enabled
Paging Amplifier

Use 802.3at power for maximum
output to one or two speakers

Optional second
speaker connection

25 feet maximum
length per speaker

Upload an Audio Message

User can upload an audio message to the device.

When the "Sense-In" is activated, the stored audio file will play out the local speaker and repeat until the condition is cleared.

The device can also call a pre-set phone number and when that phone answers, the stored audio message will also be played to the phone.

IP Phone

Window Reed switch is connected to the "Sense-In" connection.

Window Reed Switch
(Not a CyberData device. Sold separately)

Syn-Apps enabled Paging Amplifier

Intelligibility Outdoor Field Test

Speaker Placement
15 ft high

Football
Field

0, 0

344ft

295ft

377ft

459ft

443ft

Ambient Noise:
~70dBC

623ft

591ft

722ft

295ft

377ft

459ft

BOOST 1
intelligibility
limit

443ft

BOOST3
intelligibility
limit

623ft

Note: Boost 3 can be slightly
distorted on the high end of the
audio waveform, but this boost
will output a higher dB level and
is still intelligible in our testing.