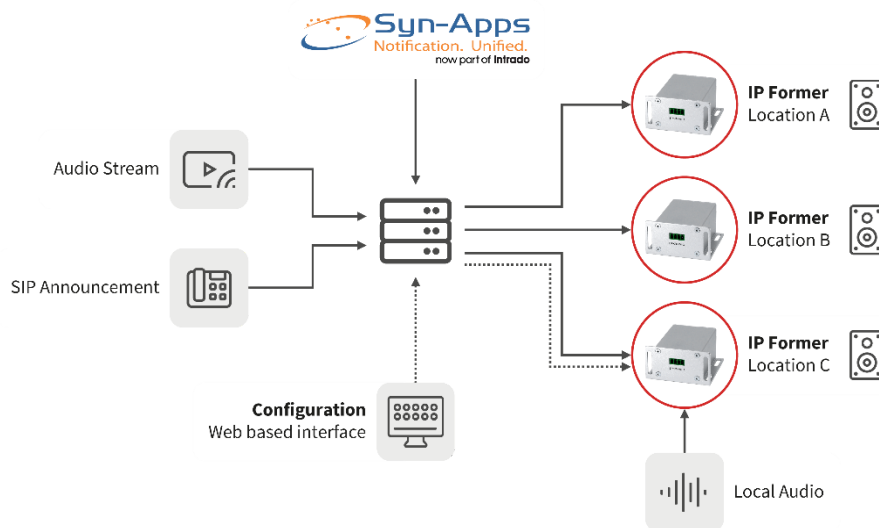# BARIX

IP Former Syn-Apps

IP Speaker Amplifier.

The IP Former converts existing passive loudspeakers into network loudspeakers. It handles a variety of prioritized IP audio inputs such as unicast and multicast RTP and HTTP supporting many audio formats including AACplus, MP3, G.711 and G.722. IP-Former registers as SIP VoIP endpoint and it natively supports Syn-Apps Revolution. The solid metal case can be mounted directly to a speaker using the transformer mounts. The built in 8W full digital class-D audio amplifier provides high quality audio signals to a 2, 4 or 8 Ohm in-wall, in-ceiling or tabletop speaker. The device is powered using Power over Ethernet (PoE). Configuration of the device is done via the internal web interface.

Applications

- Syn-Apps Revolution integration
- SIP and IP Paging / Notification
- Background music
- Emergency evacuation

Features

- 6.5W RMS @ 4 Ohm Speaker Output
- Plenum Rated per UL Standard 2043
- IEEE 802.3af PoE
- Syn-App certified
- Multi-level message priority
- AACplus, MP3, G.711, G.722 over RTP
- SIP VoIP endpoint support
- Storage of local audio files for triggered playout
- Web based configuration interface

Technical Specifications

Operation System

- Embedded Linux based on Yocto

Network Interfaces

- 1 x Ethernet (RJ45) Interface
- IPv4, IPv6 capable
- 10/100 fdx/hdx, auto negotiation
- Protocols supported: TCP/IP, UDP, RTP, SRTP SIP, SIPS, HTTP, HTTPS, DHCP, mDNS/DNS-SD (Avahi), NTP
- SynApps compatibility

CPU / Memory

- Barix IPAM400 Processor Module
- Quad-Core ARM Cortex™ -A7
- 256MB DDR3 L3
- 16MB SPI Flash
- 8GB SD-Card Flash

Audio Formats

- MP3 CBR/VBR, up to 320 kbps, 8..48 kHz sample freq.
- AAC-HE (AAC, AAC plus, AAC plus V2)
- PCM linear 16bit @ 44.1 kHz
- G.711
- G.722
- GSM
- Opus, WAV, OGG Vorbis

Audio Interface

- 6.5W RMS @ 4 Ohm on Screw Connector
- 4 – 8 Ohm Speaker Impedance
- Microphone Input 3.3VDC Bias on Screw Conn

User Interface

- Web interface for configuration
- 2 x Multicolor LED Status indicators
- Reset & Factory Defaults Button

Power Requirements

- IEEE 802.3af PoE

MTBF

- > 200'000h

Measurement / Mechanics

- 2.4" x 2.4" x 1.25" / 72mm x 72mm x 38mm
- Various Mounting ears for 70/100V Transformer compatibility

Weight

- 110g

Warranty

- Two years

Environmental

Operating Environment
0 to +50°C / 32 to 122°F
0 - 70% relative humidity, non-condensing
Plenum Rated per UL Standard 2043

Storage Conditions
-20 to +70°C / -4 to 158°F
0 - 70% relative humidity, non-condensing

Certifications

CE, RoHS, FCC

Ordering Information

2020.9299P IP Former TPA400 (incl. Syn-Apps)
2020.9301P IP Former TPA400 InformaCast

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