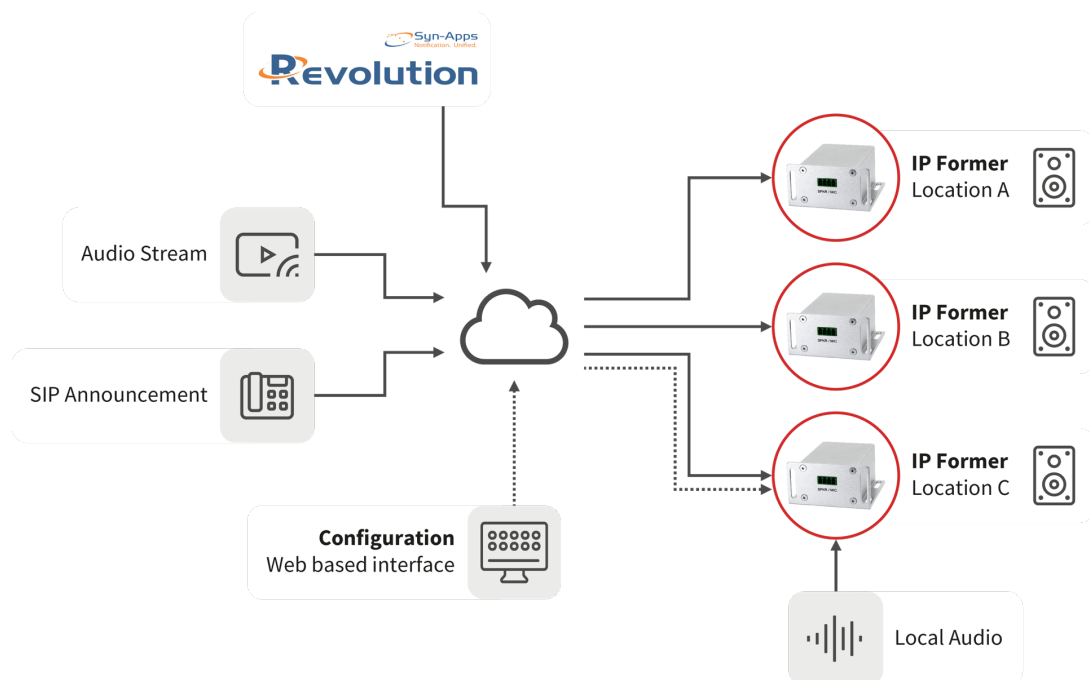# BARIX

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 2 – 8 Ohm in-wall, in-ceiling or tabletop Speakers. The device is powered using Power over Ethernet (PoE). Configuration of the device is done via the internal web interface.

Applications

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

Specifications

- 8W RMS @ 8Ohm Speaker Output
- IEEE 802.3af PoE
- Syn-Apps 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
• TCP/IP, UDP, RTP, SIP, CGI, HTTP, DHCP
• Syn-Apps compatibility

Audio Interface
• 8W RMS @ 8Ohm on Screw Connector
• 2-8 Ohm Speaker Impedance
• Microphone Input with 3.3VDC Bias on
  Screw Connector

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 @8, 16, 22.05, 24, 32, 44.1,
  48 kHz
• G.711
• G.722
• GSM
• Opus

CPU / Memory
• Barix IPAM400 Processor Module
• Quad-Core ARM Cortex™ -A7
• 2GB DDR3 SDRAM
• 16MB SPI Flash
• 8GB SD-Card Flash

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
• 2.05" x 2.60" x 1.57" /
  52mm x 66mm x 40mm
• Various Mounting ears for 70/100V
  Transformer compatibility

Weight
• 110g

Warranty
• Two years

Environmental

Operating Environment
0°C to + 50° / 32 to 122°F environmental
0 - 70% relative humidity, non-condensing

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

Certifications

RoHS, FCC (A&B), CE (A&B)

Ordering Information

2020.9299P IP Former TPA400 (incl. Syn-Apps)
2020.9314P IP Former TPA400 RetailPlayer Portal
2020.9301P IP Former TPA400 InformaCast

For commercial related questions (distributors contacts, price list, business opportunities) please contact
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For technical inquiries (problem reports, request for documentation, etc.) please contact
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