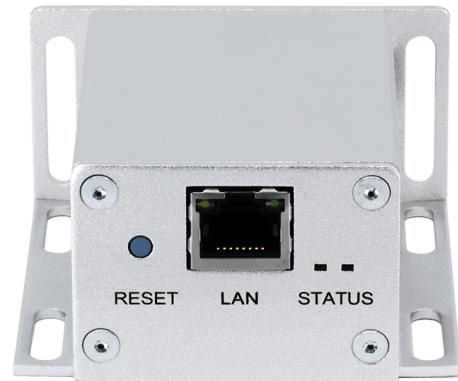


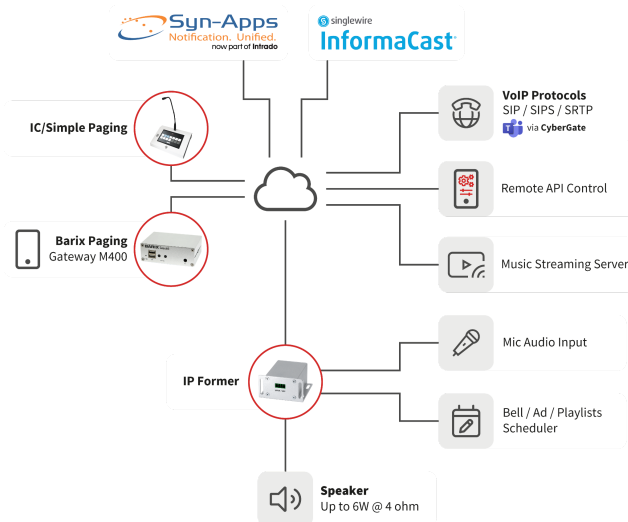
# BARIX

## IP Former TPA400

### IP Speaker Amplifier



The IP Former converts existing passive loudspeakers to network loudspeakers in various applications. It is a solid metal device that is mounting compatible to 70/100V Speaker Transformers and can therefore be mounted to any existing Speaker. A wide variety of Audio Systems, such as SIP, InformaCast and Syn-Apps are supported. Codecs include PCM, AACplus, MP3, OPUS, G.711, G.722 that can be streamed using HTTP, RTP or UDP. Audio files can be stored on the internal memory and played via simple UDP command. 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 without any other cabling using Power over Ethernet (PoE). Configuration of the device is done via the internal web interface.



### Applications

- SIP and IP Paging / Notification
- Background music
- Emergency evacuation
- Singlewire InformaCast integration
- Syn-Apps Revolution integration
- MS Teams endpoint via CyberGate service

### Features

- 6.5W RMS @ 4 Ohm Speaker Output
- Plenum Rated per UL Standard 2043
- IEEE 802.3af PoE
- Syn-App certified
- Singlewire certified
- Multi-level message priority
- AACplus, MP3, G.711, G.722 over RTP
- SIP VoIP endpoint support

# 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
- Singlewire InformaCast compatibility (license required)
- SynApps Revolution 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
- Mounting ears interaxis: 60mm (for 70/100V Transformer compatibility)

## Weight

- 110g

## Warranty

- Two year

## 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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