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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