

## Annuncicom MPI400

Intercom / Paging device with contact closure inputs, relay outputs, Line and Mic / Speaker support.



The MPI400 is a versatile Audio over IP device designed to serve as an end point or gateway between IP based intercom (VoIP/SIP or streaming) and traditional paging/intercom systems, microphone/speakers or an amplifier.

The modern, robust & powerful hardware/software architecture provides a future proof platform that meets modern internet security requirements and can easily be adapted to individual customer needs.

A wide variety of audio environments, 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 and RTP. Audio files can be stored on the internal memory and their playback can be triggered via a simple UDP command or scheduled. Thanks to the priority handler, the Annuncicom MPI400 can be configured to switch between sources according to one of the five priority settings and therefore eliminates the need for an audio matrix device.

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### Applications

- Paging / intercom device with talkback for classrooms or factory buildings.
- Door Intercom station
- Paging/ intercom endpoint for public transportation
- Help Point/SOS call box device
- Generic, bidirectional half and full-duplex VoIP module for Paging and Intercom applications
- IP based Audio Surveillance
- Digital Annunciator, Message Player
- VHF Radio interface to IP networks

### Features

- SIP VoIP client support
- IP Streaming via HTTP, UDP, RTP, Multicast, Uni- or Broadcast
- Variety of Audio codecs supported (e.g. AAC+, MP3, PCM, G.711, G.722, OPUS ...)
- Internet security supported (HTTPS, SRTP, SIPS)
- Low voltage Relay Outputs (2) for example to activate amplifier upon SIP call received
- Dry Contact Inputs (2), expandable via USB for example to establish a connection or to select a target
- Microphone Inputs (2x)
- Line Level Input (mono, unbalanced)
- Audio Output (mono, balanced) or amplified output 1W @8 Ohm
- PoE and 24VDC redundancy powered



For commercial related questions (distributors contacts, price list, business opportunities) please contact: [sales@barix.com](mailto:sales@barix.com)



For technical inquiries (problem reports, request for documentation, etc.) please contact: [support@barix.com](mailto:support@barix.com)

# Technical Specifications

## CPU / Memory

- Barix IPAM400 Processor Module
- Quad-Core ARM Cortex™ -A7
- 256 MB DDR3 SDRAM
- 16 MB SPI Flash

## Operating System

- Embedded Linux based on Yocto

## Power interface

- 24 VDC, +/- 20%, 12 Watt max.  
on detach. screw terminal block
- IEEE 802.3af PoE

## Network Interface

- 10/100Mbps auto-sensing
- RJ-45 connector with integrated Link /Activity LED
- IPv4/IPv6 capable
- Protocols: TCP/IP, HTTP, UDP, RTP, SIP, DHCP, Multicast capable

## USB Interface

- 2x USB 2.0 type A interfaces

## Discrete I/O

- On detach. screw terminal block:
- 1x Normally open relay 30V 0.5A
  - 1x Normally closed relay 30V 0.5A
  - 2x digital dry contact inputs

## Audio input interfaces

- On detach. screw terminal block:
- Line level input +4dBu max, mono, unbalanced
  - Microphone input, balanced, 18V phantom powered
  - Microphone input, electret, unbalanced, 2.7V bias

## Audio Output Interfaces

- On detach. screw terminal block:
- Audio output (mono), suitable to drive a speaker or a balanced output (exclusive output).  
Speaker: 1W @8ohms  
Line out: symmetric/balanced, non-isolated, with DC offset, 10dBu (unbalanced: 4dBu)  
volume level software controlled
  - 3.5mm headphone output

## IP Audio formats

- FDX/HDX SIP client support
- HTTP(S) and (S)RTP Streaming
- Large variety of codecs can be supported (e.g. MP3, PCM, G.711, G.722, AAC+, OPUS)

## User Interface

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

## Mechanical

- Aluminum case, 265 g
- Dimensions 108 x 38 x 78.7mm (4.25 x 1.5 x 3.1 inch) rack and wall mountable using accessories

## Warranty

- Two year

## Environmental

### Operating Environment

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

### Storage Conditions

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

## Ordering Information

2021.9330P MPI400 package  
2011.5032 Accessories Power supply 24VDC  
2006.9072 Accessories Wall mount bracket  
2007.9082 Accessories 19" Rack mount

## Certifications

CE, RoHS, FCC

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## Barix AG

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