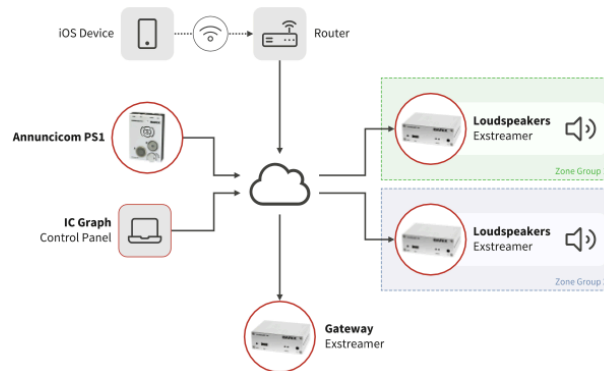# BARIX

Annuncicom PS1

Desktop/Wallmount IP Intercom and paging master station, headphone and gooseneck mic support.

The Barix Annuncicom PS1 is a universal IP Audio device, both compact and elegant, and gives broadcasters, commercial businesses, office buildings, educational institutions, medical facilities and others a simple, fully integrated hardware solution for paging and intercom over IP.

The Annuncicom PS1 features two backlit push-to-talk buttons, volume control and a built-in speaker and microphone, giving security guards, receptionists and other operators a simple way to make announcements to an entire facility. Two mini-jack connectors support the use of a headset, or a goose-neck microphone and headphones. The device connects to standard IP network, allowing systems integrators and end users to take advantage of existing infrastructure, reducing costs and equipment. Power over Ethernet (PoE) capability further simplifies installation, requiring only a single cable to the device.

The compact design of the Annuncicom PS1 accommodates wall-mount and desktop installations. Using the optional belt clip and a headset, the Annuncicom PS1 is the ideal choice for an IP based party-line intercom.

The Annuncicom PS1 can also integrate with background music systems — ideal for retailers, restaurants, hotels, clubs and other entertainment venues that wish to override a stream with announcements.

Bi-directional capability enables intercom for facility-wide, two-way communications — taking the PS1 beyond a basic paging device for ski areas, university campuses and other large areas that require talkback capability.

The supported codecs (PCM/G.711/G.722/MP3) and range of sample rates (8..48kHz) allow the optimization of the audio quality for the application. Up to CD/HiFi (mono only!) quality can be achieved.

Applications

- Generic VoIP Intercom and Paging Device
- with speaker amplifier
- Voice Evacuation Systems
- Help Point/SOS call box device
- Microphone Encoder for IP Audio Surveillance

Features

- MP3, G711, G.722, PCM Encoding
- MP3, G.711, G.722, PCM Decoding
- IP Streaming via TCP, UDP, RTP, Multicast
- Integrated Microphone
- Integrated speaker 1W
- External volume control

Technical Specifications

Electrical

- Power supply via 802.3af (PoE) Ethernet, 8 Watt max.

Ethernet

- 10/100Mbps auto, 802.3af (PoE)
- RJ-45 connector with integrated Link/Activity LED
- Protocols: TCP/IP, UDP, RTP, SIP, DHCP, Multicast capable

Headphone out

- Output impedance 0.1 Ohm
- 1 Watt max @ 8 Ohm
- Values @ 8 Ohm *:
  - Frequency response 20 Hz .. 20 kHz (-3dB),
  - Dynamic range 80dB,
  - Signal to Noise Ratio -80dB
  - Total Harmonic Distortion <0.15% (-3dBFS)
- Output level controllable via volume knob and software

Speaker

- Impedance 8 Ohm
- 1 Watt RMS max
- Values @ 8 Ohm:
  - Frequency response 300 Hz .. 20 kHz (-3dB),
  - Sound pressure 77dB, (1W @ 1 meter)
- Output level controllable via volume knob and software

Mechanical

- Metal case, black powder coated, white plastic front, 316 g / 11 oz.

Microphone built-in

- Electret condenser microphone, omni directional
- Output impedance <2.2 KOhms
- Frequency response 100 Hz .. 16 kHz
- Sensitivity (@ 1KHz, 0dB = 1V/Pa) -40 dB ±3dB
- Signal to Noise Ratio weighted (F = 1KHz 1Pa) >60 dB)

Microphone in

- Dynamic or Electret mic, Bias power (2.4..4 VDC)
- Frequency response 50Hz ..20kHz (-3dB)*
- Dynamic range 70dB, SNR -70dB, THD <0.05% (-3dBFS)*
- input sensitivity software controllable

Audio formats

- MP3 encoding/decoding up to 192/320kbps
- PCM 16bit @ 8..48 kHz
- G.711, G.722

Discrete I/O

- Button A with white status LED
- Button B with bicolor status LED (red/green)

Dimensions (L x D x H)

- 105 x 75 x 28 mm (4.14 x 2.95 x 1.1 inch)

MTBF

- (calculated according to MIL217F @ 25°C) Min. 350 000h

* depends on used codec, best results @48kHz PCM
** 0 - 70% relative humidity, non-condensing

Environmental

Operating Environment
0 to +50°C / 32 to 122°F

Storage Conditions
0 to +70°C / 32 to 158°F

Certifications

CE, RoHS, others in examination

Ordering Information

2012.9118 Annuncicom PS1 INTL package Device only
- Desktop stand with screws and rubber feet
2012.9117 Annuncicom PS1 Accessory Kit Package contents
- Guiding bracket for gooseneck mic
- Mini-jack gooseneck microphone

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