



# ANNUNICOM

## PS1

### Compact VoIP Intercom, Public Address and Paging Station



- **All-in-one solution for VoIP Intercom, IP Paging, Voice party-line and Public Address applications**
- **Power over Ethernet single cable operation**
- **Integrated microphone and speaker**
- **Mini-Jack interfaces support external gooseneck microphone/headphones/headsets**
- **Accessories allow for wall mounting, portable (belt clip) or desktop use**
- **Supports two-way (talk back) communications**
- **Supports IP standards such as TCP/IP, RTP, SIP, Multicast and high quality audio format**

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

The Annunicom 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 quality can be achieved.

#### Applications

- **VoIP Paging and Public Address systems**
- **IP party-line voice intercom**
- **SIP based door and help point intercom system**
- **Production intercom in broadcasting**



## 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

### 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

\* depends on used codec, best results @48kHz PCM

### Discrete I/O

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

### Mechanical

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

### Dimensions (L x D x H)

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

## Environmental / Reliability

### Environment \*\*

Operating conditions 0 to 50°C / 32 to 122°F  
Storage conditions 0 to 70°C / 32 to 158°F

### MTBF (calculated according to MIL217F @ 48V, 40°C)

TBD h (ground mobile device), TBD h (ground fix device)

## Certifications/compliant with

### RoHS, FCC, CE, C-Tick

## Ordering Information

**Annunicom PSI INTL package** **2012.9118**  
Device only

**Annunicom PSI Accessory Kit** **2012.9117**  
Package contents (TBD):  
- Desktop stand with screws and rubber feet  
- Belt clip  
- Guiding bracket for gooseneck mic  
- Mini-jack gooseneck microphone

For documentation, application notes, available software, tools and related products, please visit [www.barix.com](http://www.barix.com)  
Design by wireworks – [www.wireworx.de](http://www.wireworx.de)

\*\* 0 - 70% relative humidity, non-condensing

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