



# ANNUNCIOM

## 100 Rev 2

## VOIP intercom and PA component for commercial, industrial and security applications



The Annunicom 100 Revision 2 device is a member of the Barix Annunicom product family, versatile Audio over IP codecs (encoder/decoder) for use in a wide field of applications, from announcement, paging to intercom.

Based on reliable, embedded, low power, solid state technology, the devices are ideally suited for 24/7 operations, do not need cooling or maintenance, and are not prone to usual issues caused by operating systems.

All models provide audio output in both line level and amplified for a speaker (2Watt on 4 Ohm), audio input on line level as well as support for a microphone (unbalanced with Bias).

I/O includes two button or dry contact inputs, a relay output and two serial ports (RS-232, RS-485).

External flash memory can be connected to the USB port.

- Supports standards: TCP/IP, RTP, SIP, Multicast
- Supports Audio formats: AAC+, MP3, Ogg Vorbis, PCM and G.711
- Microphone input and speaker amplifier
- Universal Serial Interfaces RS-232 and RS-485
- Two button inputs and one relay output
- USB connector for media storage

Various standard software packages are available for download from the Barix website, covering applications such as VOIP intercom, voice paging and Public Address. Custom software can easily be written, based on existing packages from Barix or freely in the ABCL (Basic dialect) scripting language.

### Applications

- SIP phone endpoint
- Door intercom system
- Voice paging and audio distribution
- Automatic announcement systems
- Public address, emergency calls, alarms
- Monitor and control communication (in public buildings, airports, manufacturing facilities, and shopping malls)
- VHF radio control via IP application



# Annunicom 100 – VOIP intercom and Public Address component

## Technical Specifications

### Electrical

9 to 30VDC, 12 to 24 VAC, 8 Watt max. on screw terminal block and 2.1mm barrel connector

### Ethernet

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

### Microphone Input

On detachable screw terminal block and 3.5 mm (1/8") Jack  
3 pin TRS, with bias power 2.7VDC

### Analog Line Input (mono)

Line level input, 2k Ohm input impedance on RCA  
2.2 V<sub>PP</sub> max, adjustable in sensitivity  
Frequency response 20 Hz .. 20 kHz (-3dB)\*  
Dynamic range 87 dB, SNR -87 dB, THD <0.01% (-3 dBFS)\*

### Analog Line Output (mono)

Line level output, 40..60 Ohm output impedance on RCA  
Output level software controllable  
Full scale output voltage: 3 dBu, 3 V<sub>PP</sub>  
Frequency response 20 Hz .. 20 kHz (-3dB)\*  
Dynamic range 94 dB, SNR -94 dB, THD <0.03 % (-3dBFS)\*

### Speaker out

On detachable screw terminal block  
Suggested speaker impedance 4 to 32 Ohm  
1 Watt max @ 8 Ohm (2 W max @ 4 Ohm)  
Frequency response 20 Hz .. 20 kHz (-3dB)\*,  
Dynamic range 80dB, SNR -80dB, THD <0.15% (-3dBFS)\*

### Audio formats

Format	Encode	Decode
PCM	✓	✓
G.711	✓	✓
G.722	✓	✓
Ogg Vorbis	–	✓
AAC+	–	✓
MP3	VBR, CBR	VBR, CBR

Notes: MP3, encoding/decoding up to 192/320 kbps  
PCM 16 bit and 8 bit (uLaw, aLaw) @ 8..48 kHz

### Discrete I/O

On detachable screw terminal block  
1 relay output with normally closed and open contacts,  
30V 0.5A (AC & DC)  
2 discrete / dry contact inputs

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

Barix AG

Seefeldstrasse 303, CH-8008 Zürich, Switzerland  
Phone +41 43 433 22 11 Fax +41 44 274 2849  
[info@barix.com](mailto:info@barix.com)

V4.00 May 2012

© 2012 Barix AG, all rights reserved.

All information subject to change without notice.

All mentioned trademarks belong to their respective owners and are used for reference only.

### RS-232 and RS-485 Interfaces

On 9-pin Sub-D connector  
300..230'400 Baud asynchronous, tunneling or local control

### Mechanical

Aluminum case, 390 g  
Dimensions 108 x 38 x 125 mm (4.25 x 1.5 x 4.92 inch)  
rack and wall mountable using accessories

### Environmental / Reliability

Nominal operating conditions 0 to +50°C / 32 to 122°F  
Max rated temperature range -20 to +60°C / -4 to 140°F  
Storage conditions -40 to +85°C / -40 to 185°F  
all ranges at 0 - 70% relative humidity, non-condensing  
MTBF calculation 127'000 h (according to MIL217F at 40°C)

### Certifications/compliant with

RoHS, FCC, CE, C-Tick

### Model comparison table

Model	Supply	PoE	USB	Aiphone	Amp
50	(48VDC)	✓	-	-	5 Watt
100	9..30VDC 12..24 VAC	-	✓	-	2 Watt
155	24..48VDC	-	-	-	5.5 Watt
200	16..30VDC 48VDC 16..24 VAC	✓	✓	✓	8 Watt
1000	24..48VDC	-	-	-	-

### Ordering Information

<b>Annunicom 100</b>	EU package	2006.9062
	US package	2005.9063
	NoPSU package	2005.9064
	UK package	2005.9065
<b>Accessories</b>	Power supply 24VDC	2011.5032
	Wall mount bracket	2006.9072
	19" Rack mount	2007.9082
	Cable Set Audio	2006.9054

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

Barix Technology Inc.

533 Hayward Ave N, Suite 240, Oakdale, MN 55128, USA  
Phone +1 866 815 0866 Espanol: +1 425 998 2574

