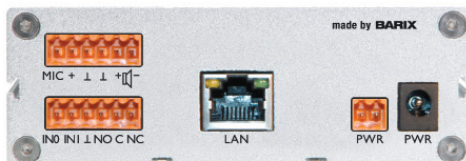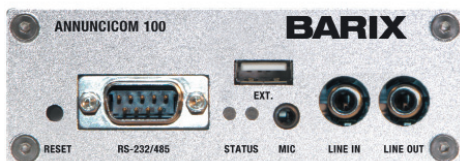# BARIX

THE VOICE OF SIMPLICITY

ANNUNCICOM 100

Intercom / Paging device with contact closure inputs and relay output, 2W amplifier

The Annuncicom 100 is a versatile Audio over IP device designed to serve as a gateway between IP Paging, VoIP and Intercom systems and traditional microphone/speakers or amplifers.

Supporting both music (MP3) as well as voice codecs (G.711, G.722*) and a large number of protocols (including shoutcast, SIP etc), the device can be used for both background music as well as VoIP applications.

Applications

- VHF Radio Controller and interface to IP
- Microphone Encoder for IP Audio Surveillance
- Door Intercom Controller, VoIP based
- Help Point/SOS call box device
- Classroom VoIP device with built-in amplifier, talkback, serial port
- Paging and Audio Distribution with Amplifier control and monitoring
- Live IP Audio Encoder for Streaming Applications
- Generic, bidirectional full-duplex VoIP module for Paging and Intercom applications
- Digital Annunciator, Message Player, Message Repeater
- SIP and IP Paging Zone Device

Features

- MP3, G.711, G.722*, PCM Encoding
- MP3, G.711, G.722*, PCM Decoding
- Shoutcast/Icecast Source capability
- Audio Level Supervision with SNMP Trap generation
- IP Streaming via TCP, UDP, RTP, Multicast
- Microphone Input
- Line Level Input
- Line Level Output
- Amplified Output 2W (8Ohm)
- Relay Output (1)
- Contact Closure Input (2)
- RS-232 Serial Port (1)
- RS-485 Serial Port (1)
- Supply Voltage (9..30VDC, 12..24 VAC)

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* Hardware Revision 2 (HW Rev 2) only. HW Rev2 devices are identified by the Device Hardware Revision No. (DHW:2.x) on the device data-plate and box-sticker.

Technical Specifications

Electrical
- 9 to 30 VDC, 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 VPP max, adjustable in sensitivity
- Frequency response 20 Hz .. 20 kHz (-3dB)**
- Dynamic range 87 dB, SNR -87 dB, THD <0.01% (-3dBFS)**

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 VPP
- Frequency response 20 Hz .. 20 kHz (-3dB)**
- Dynamic range 94 dB, SNR -94 dB, THD <0.03 % (-3dBFS)**

RS-232 and RS-485 Interfaces
- On 9-pin Sub-D connector
- 300..230'400 Baud asynchronous, tunneling or local control

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)**

MTBF
- calculation 560 000h (according to MIL217F at 25°C)

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

Audio formats

Format	Encode	Decode
PCM	y	y
G.711	y	y
G.722*	y	y
MP3	VBR, CBR*	VBR, CBR*

Model comparison

Model	Supply	PoE	USB	AIPHONE	AMP
60	(48VDC)	Y	-	-	5WATT
100	9..30 VDC	-	Y	-	2WATT
	12..24 VAC				
155	24..48 VDC	-	-	-	5.5WATT
200	16..30 VDC	Y	Y	Y	8WATT
	48 VDC				
	16..24 VAC				
1000	24..48 VDC	-	-	-	-

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

* Hardware revision 2 only
** depends on used codec, best results @48kHz PCM

Environmental

Operating Environment
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

Certifications/compliant with
RoHS, FCC, CE, C-Tick

Ordering Information

2006.9062 Annuncicom 100 EU package
2005.9063 Annuncicom 100 US package
2005.9064 Annuncicom 100 NoPSU package
2005.9065 Annuncicom 100 UK package

2011.5032 Accessories Power supply 24VDC
2006.9072 Accessories Wall mount bracket
2007.9082 Accessories 19" Rack mount
2006.9054 Accessories Cable Set Audio

For commercial related questions (distributors contacts, price list, business opportunities) please contact
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For technical inquiries (problem reports, request for documentation, etc) please contact
support@barix.com