



ANNUNICOM

155

Ruggedized IP Paging, Intercom and VoIP



- **All-in-one solution for Audio over IP transport and distribution**
- **Supports IP standards such as TCP/IP, RTP, SIP, Multicast**
- **Suitable for use in trains, buses, ships, outdoors, industry**
- **IP65 rated, tested to EN50155, suitable for harsh environments**
- **Wide operating range (-40..+70°C), shock and vibration resistant**
- **Supervised control inputs and speaker/microphone interface**

The Barix Annunicom 155 is a ruggedized, universal IP Audio device, developed to operate within challenging environmental conditions whether outside or in rolling stock.

With an amplified output suitable to drive 5W into an overhead paging or panel speaker, a sensitive microphone input, selector/contact closure inputs and control output the device is equally suitable for paging, intercom, help point and monitoring applications.

A built-in switch provides two 10/100Mbps network interfaces allowing the daisy chaining of devices.

The universal power input (24..48V) is isolated and well protected allowing the use of the device in both telecom as well as rail applications.

The supported codecs (PCM/uLaw/aLaw/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.

Using standard Barix firmware on the Annunicom 155, the device can operate as a streaming receiver for background music with priority messaging, as a paging or intercom device within a Paging/Intercom system or as a digital message repeater. With the Barix SIP firmware, the device can operate as part of an IP telephony solution, for example, as an

intercom panel in parking barriers, toll gates, as a SOS help point, call box etc.

Being fully EN50155 and GL "Brücke" compliant, the device fulfills the stringent requirements to be used in trains, cars, ships and industrial as well as outdoor installations.

With versatile I/O, full multicast support and internal flash memory for audio messages, the device is suitable for many special applications. Most Barix standard applications (such as the SIP firmware, message repeater etc) can be provided as source code for modifications by system integrators or OEMs. Full custom code can easily be written on the devices in the ABCL programming environment.

Applications

- **Door and help point intercom system**
- **Security surveillance and alarming**
- **PA, alarming, and paging**
- **Help Points, Emergency Intercom in cars, vessels, trains, people movers**
- **VHF radio control via IP**
- **Outdoors, SIP based call box/help point**
- **Digital Message Repeater**
- **Generic Audio Streaming over IP**

Technical Specifications

Electrical

24 to 48 VDC \pm 30%, $<60V$
Power requirement: 14 Watt max.
M12 "A" connector (male)

Ethernet

2x 10/100Mbps auto, MDI/MDI-X
Internal switch
M12 "D" connector (female)
Link & Activity LEDs per interface
Protocols: TCP/IP, UDP, RTP, SIP, DHCP

RS-485

M12 "A" connector (female)
300..230'400 Baud asynchronous, 7/8 bit
+12V, 100mA, fused supply output to external devices

Line out

max. 11dBm@600Ohm,
max. 12dBu (FS), unloaded
Output level software controllable

Speaker out

5 Watt RMS @ 8 Ohm
Output level software controllable

Microphone in

Electret mic, supervised bias power
input sensitivity software controllable

Audio formats

MP3, encoding/decoding up to 192/320kbps
PCM 16bit @8, 16, 22.05, 24, 32, 44.1, 48 kHz
G.711, uLaw, aLaw (sample rates same as PCM)

Discrete I/O

2 fully supervised inputs
1 LED driver output, current limited
internal temperature sensor
Two status LEDs (red/green)

Panel interface

Sub-D 15 connector, all audio and I/O signals

Mechanical

Aluminum case, 460g, with mounting wings

Dimensions (W x H x D)

130 x 108 x 38 mm (5.12 x 4.25 x 1.5 inch)

Min. mounting space including plugs (W x H x D)

230 x 138 x 47 mm (9 x 5.43 x 1.85 inch)

MTBF calculated according to MIL217F @24V, 40°C

50.000h (ground mobile device)
140.000h (ground fix device)

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Environmental

Operating Environment

-40 to +70°C / -40 to 158°F
0 - 95% relative humidity, non-condensing

Storage Conditions

-40 to +85°C / -40 to 185°F
0 - 95% relative humidity, non-condensing

Certifications/compliant with

RoHS, FCC, CE, C-Tick, UL (planned)

Immunity

according to EN 55024, EN 50121, EN 61000-6-2, EN 50155

Emissions

according to EN 55022, GL "Brücke", EN 50155

Environmental

according to EN 50155

Product Safety

according to EN 60590

Ordering Information

Annunicom 155

2010.9098

Device only. Power supply and mating connectors are offered separately as the accessory kit, below

Annunicom 155 Accessory Kit

2010.9099

contains
- 24V power supply with M12 "A" connector
- Sub-D 15 connector for Panel interface
- M12 "A" connector for RS.485 interface
- M12 "D" to RJ45 ethernet cable

For further information, product manual, application notes, available software, related products etc, please visit <http://www.barix.com>

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