



EXSTREAMER

P5

Universal, Multiformat IP Audio Decoder with Amplifier, PoE powered



- **All-in-one solution for Audio over IP decoding and distribution**
- **Supports IP standards such as TCP/IP, RTP, SIP, Multicast**
- **Suitable for use in broadcast, paging, in-store applications**
- **Supports Audio formats such as AAC+ V2, MP3, PCM, Ogg Vorbis, G.711**
- **RS-485 Serial Interface for IR and local control**
- **Integrated 5W RMS Amplifier, PoE (802.3af) powered**

The Exstreamer P5 is a member of the Barix Exstreamer product family, versatile Audio over IP codecs (encoder/decoder) for use in a wide field of applications, from broadcast to in-store, from distribution of music in hotels to SIP telephone paging applications.

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

Ethersound (ES-100/Spkr) support allows the devices to be used as a dual channel receiver/decoder in realtime audio distribution applications which target ultra low latency for live audio.

The Exstreamer P5 provides amplified audio (5W RMS) directly into an 8 Ohm speaker. The device draws its power from an 802.3af Ethernet connection.

A serial and IR port (on an RJ-45 connector) allows direct

connection of the Barix VSC or similar in-room controls.

Various standard software packages for specific applications are available for download from the Barix website, from applications optimized for hospitality, retail and broadcast to a full featured SIP client, suitable as a paging interface. Custom software can easily be written, based on existing packages from Barix or freely in the ABCL (Basic dialect) scripting language.

Applications

- **Overhead Speaker Interface with Amplifier**
- **Commercial audio streaming applications**
- **Playback point in an IP PA system**
- **In-room IP Device for Hotels, Venues**
- **In-store audio distribution**
- **SIP based paging interface**
- **Zone output device for IP distributed audio**
- **Ethersound (ES-100/Spkr) channel receiver**

Technical Specifications

Electrical

Power supply via 802.3af (PoE) Ethernet, 15 Watt max.
10V supply output to in-room control

Ethernet

10/100Mbps auto, 802.3af
RJ-45 connector with integrated Link/Activity LED
Protocols: TCP/IP, UDP, RTP, SIP, DHCP, Multicast capable
ES-100/spkr (Ethersound, output, no daisy-chain) support

Analog Output

Amplified output, short circuit and overload protected
Output power: 5W_{RMS} (8 Ohm), 3W_{RMS} (16 Ohm)
Frequency response (-3dB): 20Hz ..12kHz (8 Ohm),
25Hz ..20kHz (16 Ohm) *
SNR (-3dBFS): -90 dB (8 Ohm), -75 dB (16 Ohm)
THD <0.7% (8 Ohm), <0.3% (16 Ohm)

Audio formats

MP3 CBR/VBR, up to 320kbps, 8..48kHz sample freq.
AAC, AAC plus, AAC-HE (AAC plus V2)
WMA (up to version 9), Ogg Vorbis
PCM 16bit @8, 16, 22.05, 24, 32, 44.1, 48 kHz
G.711, uLaw, aLaw (sample rates same as PCM)

Control Interface (RJ-45)

Direct support for Barix VSC (Volume Source Control)
RS-485, 300..230'400 Baud asynchronous
IR input on separate line
10V supply output for in-room control

IR Interface

IR via serial port interface connection
Supports Barix IR receiver (with adapter) and VSC

Mechanical

Aluminum case, 300g, with mounting wings for direct
wall mounting

Dimensions (W x H x D)

108x38x78.7mm (4.25x1.5x3.1 inch) plus mounting wings

Environmental

Operating Environment

0 to +55°C / 32 to 131°F
0 - 70% relative humidity, non-condensing

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

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Storage Conditions

0 to +70°C / 32 to 158°F
0 - 70% relative humidity, non-condensing

Certifications/compliant with

RoHS, FCC, CE, C-Tick

Immunity

according to EN 55024, EN 61000-4-2, -4-3, -4-4, -4-5, -4-6

Emissions

according to EN 55022

Product Safety

according to EN 60590

Other Models available

Exstreamer 100, 110, 120

Universal IP Audio decoders with line level output

Exstreamer 500, 1000

Professional IP Audio encoders/decoders with balanced audio
interfaces and contact closures

Instreamer 100

IP Audio encoder with line level and S/PDIF interfaces

Annunicom 100, 155, 200

IP Audio encoder/decoder with microphone input and
speaker output plus I/O

Annunicom 1000

Professional IP Intercom/Paging device with balanced audio
and supervised contact closure inputs and outputs

Barix PSI6

IP PA paging station with line keys desktop model

Ordering Information

Exstreamer P5 PoE package 2010.9104

Package contains
- Exstreamer P5 device
- Speaker connector

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