



EXSTREAMER

100-110-120

Universal IP Audio Decoders with TCP/IP, RTP, SIP, Multicast, Ethersound® support



- 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 AACplusV2, MP3, PCM, Ogg Vorbis, G.711
- Universal Serial Interface (RS-232), Relay (some models)
- USB or MicroSD flash connector for media storage
- ES-100/Spkr (Ethersound 100) Support

The Exstreamer 100, 110, 120 devices are members of the Barix Exstreamer product family, versatile Audio over IP codecs (encoder/decoder) for use in a wide field of applications, from broadcast to instore, from distribution of music in hotels to SIP telephone paging applications.

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.

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.

All models provide audio output on line level RCA connectors and headphone jack. I/O includes the serial port (RS-232, all models), Display, built-in IR receiver, and control relay (some models). External flash memory can be connected to a USB port or a MicroSD card can be inserted into the device.

Various standard software packages for specific applications are available for download from the Barix website, from applications optimized for 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

- Reliable Internet Radio receiver
- Commercial audio streaming applications
- Playback point in an IP PA system
- Confidence checking of radio channels
- Digital Annunciator with serial/IP control
- Digital Message Repeater/Player
- In-store audio distribution
- SIP based paging interface
- Zone output device for IP distributed audio
- Ethersound (ES-100/Spkr) dual channel receiver

Technical Specifications

Electrical

9 to 30 VDC, 5 Watt max.
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
ES-100/spkr (Ethersound, output, no daisy-chain) support

Analog Output (stereo)

Line level output, 40..60 Ohm output impedance on RCA and 1/8" headphone jack. Output level software controllable
Full scale output voltage: 5.6 dBu, 4 Vpp
Frequency response (-3dB) 19Hz ..22kHz *
Dynamic range 87 dB
SNR/THD -87 dB, <0.05%

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)

Discrete I/O

1 NO relay contact, 24V 0.5A (110&120 models only)

RS-232 Interface

300..230'400 Baud asynchronous, tunneling or local control

Display

Backlit LCD, 2x16 chars (110&120 models only)

IR Interface

IR via serial port, built-in IR receiver (110&120 models only)
IR remote control included with Exstreamer 110 & 120

Mechanical

Aluminum case, 250g, rack and wall mountable using accessories

Dimensions (W x H x D)

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

Environmental

Operating Environment

0 to +40°C / 32 to 104°F
0 - 70% relative humidity, non-condensing

Storage Conditions

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

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

** high quality A/D supports only certain sample rates

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Certifications/compliant with

RoHS, FCC, CE, C-Tick

Immunity

according to EN 55024, EN 61000-6-2

Emissions

according to EN 55022, EN 61000-3-2, -3-3

Product Safety

according to EN 60590

Model comparison table

MODEL	DISPLAY	MEMORY	IR	RELAY
100	-	USB	use kit	-
110	yes, 2x16	USB	included	yes
120	yes, 2x16	MicroSD	included	yes

Ordering Information

Exstreamer 100	EU package	2005.9051
	US package	2005.9052
	NoPSU package	2005.9056
	UK package	2005.9057
Exstreamer 110	EU package	2005.9079
	US package	2005.9080
	NoPSU package	2005.9087
	UK package	2005.9083
Exstreamer 120	EU package	2010.9100
	US package	2010.9101
	NoPSU package	2010.9103
	UK package	2010.9102
Exstreamer Mounting Bracket		2006.9072
Barix 19" Rack mount		2007.9082
Cable Set Audio		2006.9054
IR Kit (Receiver + Remote)		2003.9017

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

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