



# 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

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

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

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