EXSTREAMER 1XX
IP Audio decoder with USB/Micro SD flash interface and serial port

The Exstreamer 1xx family of products decode IP Audio streams and play out the received Audio signal to amplifiers. Supporting a large number of protocols, encoding methods and application specific firmware, the products can be used for Broadcast, Internet Radio, as well as VoIP applications. Control and local storage interfaces are device specific to match different use cases.

Applications
- Multiroom IP Audio System Receiver
- Instore Audio Player
- Internet Radio Receiver
- SIP and IP Paging Zone Device
- Digital Annunciator, Message Player, Message Repeater
- Generic VoIP decoder for IP Paging and Announcement applications
- Commercial Audio Streaming Applications

Features
- AACplus, MP3, Ogg Vorbis, G.711, PCM Decoding
- IP Streaming via TCP, UDP, RTP, Multicast
- Line Level Output (Stereo)
- RS-232 Serial Port
- Supply Voltage (9..30VDC, 12..24VAC)
- USB Flash Interface
Technical Specifications

**Electrical**
- 9 to 30 VDC, 12 to 24 VAC, 6 Watt max.
- 2.1mm barrel connector

**Ethernet**
- 10/100Mbps Auto-negotiation
- RJ-45 connector with integrated Link/Activity LED
- Protocols: TCP/IP, UDP, RTP, SIP, DHCP, Multicast capable, webserver for control, status and configuration

**Analog Output**
- Line level output, 40...60 Ohm 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 *
- Signal to Noise Ratio 87 dB *, THD <0.05% *

**Audio formats**
- MP3 CBR/VBR, up to 320 kbps, 8..48 kHz sample freq.
- AAC-HE (AAC, AAC plus, AAC plus V2)
- Ogg Vorbis, WMA (up to version 9)
- PCM (L16, uLaw, aLaw), 8..48 kHz sample freq.
- G.711, G.722

**IR Interface**
- Built-in IR receiver and IR remote control included with Exstreamer 110 & 120 models only
- Optional external IR receiver via serial port (IR Kit)

**Discrete I/O**
- 1 Relay 24V 0.5A (normally open, 110 & 120 models only)

**RS-232 Interface**
- Male 9-pin Sub-D connector
- 300..230'400 Baud asynchron., tunneling or local control
- 12 VDC supply output for external device (100 mA max.)

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

**Miscellaneous**
- Green and red LED for status display
- Button for reset and factory defaults

**Mechanical**
- Aluminum case, 250g
- Rack and wall mountable using accessories

**Dimensions (W x H x D)**
- W x H x D: 108x38x78.7mm (4.25x1.5x3.1 inch)

**Declarations of conformity**
RoHS, FCC, CE, C-Tick

**MTBF** (Calculated acc. MIL217F at 25°C)
- Exstreamer 100 : min. 480 000h
- Exstreamer 105 : min. 460 000h
- Exstreamer 110 : min. 450 000h
- Exstreamer 120 : min. 430 000h

**Model comparison**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Display</th>
<th>Memory</th>
<th>IR Relay</th>
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</thead>
<tbody>
<tr>
<td>100</td>
<td>- USB</td>
<td>use kit</td>
<td>-</td>
</tr>
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<td>105</td>
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* depends on used codec, best results @48kHz PCM
** high quality A/D supports only certain sample rates

**Environmental**

**Operating Environment**
- 0 to +40°C / 32 to 104°F *
- 0 - 70% relative humidity, non-condensing
* 0 to +50°C / 32 to 122°F for model 100/105 with rated power supply unit

**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 61000-6-2

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

**Product Safety**
- according to EN 60590

**Ordering Information**

<table>
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For commercial related questions (distributors contacts, price list, business opportunities) please contact
sales@barix.com

For technical inquiries (problem reports, request for documentation, etc) please contact
support@barix.com

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