Exstreamer 500

Multiformat IP Audio Encoder/Decoder for Broadcast and Professional Audio Applications.

Professional Multiprotocol IP Audio de-/encoder with I/O, balanced audio. Support of Internet Radio and VoIP (SIP, RTP) codecs and protocols make the products the ideal choice for broadcast, professional and VoIP applications.

Applications
- Live IP Audio Encoder for Streaming Applications
- Generic, bidirectional full-duplex VoIP module
- for Paging and Intercom Applications
- Paging and Audio Distribution with external Amplifier control and monitoring
- Shoutcast/Icecast Source Encoder
- Confidence Monitoring and Vox Switch for Broadcast Applications
- Commercial Audio Streaming Applications
- Multiroom IP Audio System Receiver
- Low latency IP Audio Encoder for multichannel applications
- Background Music and Music-on-Hold
- encoder for VoIP Applications
- Source Encoder for IP Audio Distribution Applications
- Digital Annunciator, Message Player, Message Repeater
- SIP and IP Paging Zone Device
- Reflector based STL application

Features
- MP3, G.711, G.722*, PCM Encoding
- MP3, G.711, G.722*, PCM, AACplus*, Ogg Vorbis*Decoding
- Shoutcast/Icecast Source capability
- Audio Level Supervision with SNMP Trap generation
- IP Streaming via TCP, UDP, RTP, Multicast
- Balanced Line Level Input (Stereo)
- Balanced Line Level Output (Stereo)
- Relay Output (4)
- Contact Closure Input (4)
- RS-232 / RS-485 Serial Port
- USB Flash Memory Interface
- Supply Voltage 24...48 VDC

* Hardware revision 2 only

Technical Specifications

Electrical
- 24 to 48 VDC ± 20%
- Power requirement: 8 Watt max.
- 2 pin screw terminal connector

Ethernet
- 10/100Mbps auto,
- RJ-45 connector with integrated Link & Activity LEDs

- Protocols: TCP/IP, UDP, RTP, DHCP, Multicast capable

RS-485
- 4 pin screw terminal connector
**Analog Outputs**
- Differential output, 40..60 Ohm output impedance
- Output level software controllable
- Full scale output voltage: 15dBu, 12.3 Vpp
- Frequency response (-3dB) 20..20'000 Hz**
- Signal to Noise Ratio 87 dB, THD 0.01%
- Stereo crosstalk -88 dB
- Input level software controllable (-3.. +19.5dB)

**Analog Audio Inputs & Outputs (stereo)**
- DB9 female socket
- XLR connector via cable set

**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.)

**Miscellaneous**
- Green and red LED for status display
- Button for reset and factory defaults
- 4 status LED for IO
- USB port for storage media

**Audio formats**
<table>
<thead>
<tr>
<th>Format</th>
<th>Encode</th>
<th>Decode</th>
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</thead>
<tbody>
<tr>
<td>PCM</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>G.711</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Ogg Vorbis*</td>
<td>-</td>
<td>Y</td>
</tr>
<tr>
<td>AAC**</td>
<td>-</td>
<td>Y</td>
</tr>
<tr>
<td>MP3</td>
<td>VBR, CBR*</td>
<td>VBR, CBR*</td>
</tr>
</tbody>
</table>

**Discrete I/O**
- Two 6 pin screw terminal connectors
- 4 contact closure sensing inputs
- 4 relay contacts, 24V 0.5A, normally open

**Mechanical**
- Aluminum case, 620g
- optional rack mount kit available

**Dimensions (W x H x D)**
- 216x38x125mm (8.5x1.5x4.92 inch)

**MTBF**
- Calculation 410 000h (according to MIL217F at 25°C)
* Hardware revision 2 only
** depends on used codec, best results @48kHz PCM

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**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

**Certifications**
- CE, RoHS, others in examination

**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**
- 2010.9096 Extremer 500 Intl package Device, universal power supply, screw terminal connectors, DB9 to XLR adapter cable.
- 2014.0095 VSC Active Adapter
- 2003.9017 IR Dongle Set
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