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 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

Features
• MP3, G.711, PCM Encoding
• MP3, G.711, 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
- 300..230'400 Baud asynchronous, 7/8 bit

**Analog Inputs & Outputs (stereo)**
- DB9 female socket

**Analog Inputs**
- Differential input, 18kOhm input impedance
- Clipping level 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 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 92dB, THD 0.03%
- Stereo crosstalk -66 dB

**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

**Audio formats**

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<td>AAC+*</td>
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<tr>
<td>MP3</td>
<td>VBR, CBR*</td>
<td>VBR, CBR*</td>
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**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, rack mountable using accessory bracket

**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

**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**
- 2010.9096 Extreamer 500 Intl package
  Device, universal power supply, screw terminal connectors, DB9 to XLR adapter cable.
- 2007.9082 19” Barix Rack mount

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
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