

# BARIX

## 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  $\pm$  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

### 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

### 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

Format	Encode	Decode
<b>PCM</b>	Y	Y
<b>G.711</b>	Y	Y
<b>Ogg Vorbis*</b>	-	Y
<b>AAC+*</b>	-	Y
<b>MP3</b>	VBR, CBR*	VBR, CBR*

### 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

## 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 Exstreamer 500 Intl package Device, universal power supply, screw terminal connectors, DB9 to XLR adapter cable.

2007.9082 19" Barix Rack mount  
2008.9089 Set Audio 2 (XLR)

2014.0095 VSC Active Adapter

2003.9017 IR Dongle Set

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