

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
PCM	Y	Y
G.711	Y	Y
Ogg Vorbis*	-	Y
AAC+*	-	Y
MP3	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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For technical inquiries (problem reports, request for
documentation, etc.)
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