BARIX
THE VOICE OF SIMPLICITY

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 connetor 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

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, 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

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/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 Exstreamer 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
support@barix.com