

BARIX

THE VOICE OF SIMPLICITY

EXSTREAMER 500

Multiformat IP Audio Encoder/Decoder for Broadcast and Professional Audio applications



The Exstreamer 500 device, a member of the Barix Exstreamer product family, is a versatile Audio over IP codec (encoder/decoder) for use in broadcast as well as installed sound and professional audio distribution applications. Based on reliable, embedded, low power, solid state technology, the device is ideally suited for 24/7 operations, does not need cooling or maintenance, and is not prone to usual issues caused by operating systems.

With balanced stereo audio inputs and outputs, contact closures (inputs and outputs), serial

ports (RS-232 and RS-485) and USB mass storage interface the device is useable for many applications.

Broadcasters can set up an Studio Transmitter Link in minutes. Using the Barix Reflector Service it works out of the box without any device configuration.

To suit needs for custom applications, the device can be programmed in ABCL, a high level scripting language.

Applications Exstreamer 500

- STL (Studio Transmitter Link) over IP
- SSL (Studio Studio Link) with control contacts (Syndication)
- Remote contribution
- Sport events coordination
- Generic IP Audio streaming
- Confidence checking, silence detection
- Digital Message Repeater/Player
- Professional Internet Radio receiver

Software Exstreamer 500 available

- All-in-one solution for Audio over IP transport and distribution
 - Supports TCP/IP, RTP, Multicast streaming
 - Encoding and Decoding in MP3, PCM, AAC+
 - XLR balanced audio interfaces
 - USB slot for audio failover to mass storage device
 - Serial (RS-232, RS-485) and discrete I/O interfaces
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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, 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

- Encoding and decoding MP3 in variable and constant bit rate
- (VBR/CBR, 8kbps..320kbps) at 8..48kHz sample frequency
- PCM (L16, uLaw, aLaw) at 8..48kHz sample frequency
- Decoding AAC+ (AAC-LC, HE-AAC, HE-AAC v2)

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)

* 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
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For technical inquiries (problem reports, request
for documentation, etc) please contact
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