EXSTREAMER 500 Rev 2

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

- **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**

The Exstreamer 500 revision 2 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

- **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**

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Exstreamer 500 STL and Professional IP Audio Device

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
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)

** 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

Reliability

MTBF Calculation
79'000 h (according to MIL217F at 25°C)

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

Exstreamer 500 Intl package **2010.9096**
Device, universal power supply, screw terminal connectors, DB9 to XLR adapter cable.

19" Barix Rack mount **2007.9082**

For further information, product manual, application notes, available software, related products etc, please visit http://www.barix.com

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