The Instreamer encodes analog audio sources in real time in a configurable format (MP3, CM, G.711, G.722) and streams via TCP, UDP, HTTP, Shoutcast/Icecast and/or Multicast RTP format to configurable destinations.

Used in high quality broadcast applications, surveillance, and VoIP markets alike, the Instreamer has proven its simplicity where Audio over IP encoding is required.

**Applications**

- Live IP Audio Encoder for Streaming Applications
- Source Encoder for IP Audio Distribution Applications
- Background Music and Music-on-Hold encoder for VoIP Applications
- Shoutcast/Icecast Source Encoder
- Low latency IP Audio Encoder for multichannel Applications
- Confidence Monitoring and Vox Switch for Broadcast Applications

**Features**

- MP3, G.711, G.722, PCM Encoding
- Shoutcast/Icecast Source capability
- Audio Level Supervision with SNMP Trap generation
- IP Streaming via TCP, UDP, RTP, Multicast
- Line Level Input (Stereo)
- RS-232 Serial Port
- Supply Voltage 5VDC

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
Technical Specifications

Electrical
- 5V, max. 1A
- External power adaptor, 100-240VAC, 5W, included

Ethernet
- RJ45, 10/100Mbps auto, Link & Activity LEDs
- Protocols: TCP/IP, UDP, RTP, DHCP, SNMP, SIP
- AutoIP, SonicIP, IPZator to ease address assignment

RS-232
- 300..230'400 Baud asynchronous, 7/8 bit
- DSub 9 pin male
- serial tunnel, control and metadata input support

Audio Input
- RCA connectors, unbalanced, 2 kOhm impedance
- Clipping level 5.3 dBU, 4 Vpp
- Frequency response (-3dB) 20..20’000 Hz *
- Signal to Noise Ratio 89dB, THD <0.03%
- Stereo crosstalk -89dB
- Input signal attenuable by software setting (-3..+19.5dB)

Audio formats
- MP3, encoding/decoding up to 192/320kbps
- VBR and CBR support
- PCM 16bit @8, 16, 22.05, 24, 32, 44.1, 48 kHz
- G.711, uLaw, aLaw (sample rates same as PCM)

Mechanical
- Aluminum case, 225g, separate mounting bracket • available 4.25” x 1.5” x 3.1” (108mm x 38mm x 78.7 mm)

Software Environment
- Application firmware packages available from Barix
- Development Environment for custom functionality (ABCL development kit) available free of charge

MTBF
- (calculated according to MIL217F at 25°C)
- min. 540 000h

* depends on used codec, best results @48kHz PCM

Environmental

Operating Environment
Standard 0 to +50°C / 32 to 122°F
0 - 70% relative humidity, non-condensing
Contact us for larger temperature range options

Storage Conditions
-20 to +70°C / -4 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
2012.9121 Instreamer EU Package
2012.9123 Instreamer US Package
2012.9124 Instreamer UK Package
2012.9125 Instreamer noPSU Package

Device and power supply, individual packaging in cardboard box with sleeve. This device replaces the Instreamer 100 product which has been produced until 07/2012

Barix AG
Limmatstrasse 21, 8005 Zürich, Switzerland
Phone: +41 434 33 22 11
www.barix.com

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