BARIX
THE VOICE OF SIMPLICITY

INSTREAMER
General Purpose Network IP Audio Encoder

The Instreamer encodes analog audio sources in real time in a configurable format (MP3, CM, G.711,G.722) and streams via TCP, UDP, Shoutcast, 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

Software Instreamer available

• 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 (micro USB)

Technical Specifications

Electrical
- 5V, max. 1A through Mini-USB connector
- 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, 4Vpp max. level
- Frequency range 20Hz.. 20kHz (-3dB)*
- Dynamic range tbd, tbd, THD <tbd% (-3dBFS)*
- Input signal attenuable by software setting

Headphone Output
- 3.5mm jack
- volume adjustable via browser
- announcement of IP address (SonicIP)
- general purpose audio output, depending on used codec

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
- Proprietary multitasking OS
- 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°C 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/compliant with

RoHS (lead free), 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

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

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