



Release Note

Instreamer V3.16

Note: The only difference between V3.16 and V3.15 is correction #060.23: RTP header for metadata not disabled for uncompressed audio formats.

Firmware name:	Instreamer V3.16		
Released:	7th. Jan. 2009		
Package name:	instreamer_kit_vb316_20100107.zip		
Version overview:	Type	File name	Version Date
	Firmware	instreamer.rom	VB3.16_20100107
	WEB UI	instreamerapp.cob	V01.17_20090813
	SonicIP	sonicip.cob	V01.04_20070625
	FW Ext.	sg.bin	V07.03_20091105
	FW Ext.	xt05.bin	V00.03_20050317
	FW Ext.	bclio.bin	V01.09_20091110
	Bootloader	UNIFULL.SPB	V99.14_20091015

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I Hardware Compatibility

This firmware is intended to run on the following devices:

- Instreamer 100
- Exstreamer 1000

Note: The firmware can run on any other Barix audio devices (e.g. Annunicom), however the functionality is not guaranteed.

2 New Features

The following new features designed for Radio Syndication have been added, since version 3.10, to the Instreamer V3.16. Please refer to this version's User manual and Technical Documentation for more detailed information.

- **General Purpose Inputs (GPIs)** are supported. The Inputs are used either to trigger streaming or to send contact closures to a partner which has SW loaded capable of decoding the information (e.g. Streaming Client V2.10 or later). The contact closures can be sent in a Shoutcast stream in which 4 inputs are supported or within an RTP header in which case up to 8 are supported. This feature is ideal for use with an Exstreamer 1000 which supports 4 GPIs.
- **There are now 22 audio formats** supported, all of which can be transmitted in RTP with a defined payload type defined in ref [1].
- **Binary Discovery** is released together with a supporting PC Java program. This feature simplifies the task of finding Barix devices on a local LAN. ref [3].

3 Bugs Fixed In This Version

The following bugs have been fixed in the Instreamer V3.16 (since version 3.10):

- #16.22 Serial driver. In heavy traffic CRC error seen
- #53.06 Song sometimes mutes during disable stream
- #60.15 Corrupt homepage in Shoutcast mode
- #66.01 ICMP answers do NOT use ARP resolution
- #66.04 TCP reassembly is inefficient causing large delays.
- #66.07 WEB server sometimes rejects connection
- #67.05 Monitor word command no longer works.
- #67.07 Binary Discovery should not use arp resolve
- #76.01 Incorrect file search in flash. e.g. file "hello world" confused with file "hello".
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The following bugs have been fixed in the Instreamer V3.16 (since version 3.15):

- #060.23 RTP header for metadata not disabled for uncompressed audio formats.

4 Known Bugs

- 060.07. Error 503 sometimes seen on webserver
- 060.16. Crash sometimes seen by stop/start Icecast application
- 060.17 Status report does not show encoding format properly
- 66.08 Receiver window $\leq 10B$ ignored by sender
- 66.09 TCP Window shrink of the receiver causes arithmetic overflow on the sender. This results in the Instreamer sending typically 48k of data.
- 70.02 On Exstreamer1000 the A/D Gain setting in SW does not work at 32 and 48 KHz

5 Major Modifications

#060.02 The major modifications in this release are the additions for Radio Syndication defined above.

6 References

	Document
[1]	Instreamer Technical Documentation V3.16
[2]	Instreamer Manual V3.16
[3]	Barix discovery tool application note

7 Legal Information

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Barix AG
Seefeldstrasse 303
8008 Zurich
SWITZERLAND

T +41 43 433 22 11

F +41 44 274 28 49

www.barix.com
sales@barix.com
support@barix.com