

Release Note

ABCL V01.09

Firmware name:	ABCL V01.09		
Released:	23. October 2012		
Package name:	abcl_kit_v0109_20121023.zip		
Version overview:	Type	File name	Version Date
	Firmware	abclw.rom	V01.09_20121023
	WEB UI	abclapp.cob	V01.16_20120404
	FW Ext. 1	sg.bin	V09.23_20121017
	FW Ext. 2	fs.bin	V02.06_20110322
	FW Ext. 3	bclo.bin	V01.23_20120329
	ES Module	esnd.rom	V00.05_20091230
	Bootloader	unifull.spb	V99.26_20120223

1 Hardware Compatibility

This firmware is intended to run on the following devices:

- Exstreamer 100, 105, 110, 120, 200, 205, 500, 1000, P5
- Annunicom 60, 100, 155, 200, 1000, PS1
- PS16
- Instreamer 100
- IPAM 100, 101, 102, 200, 300

2 New Features

No new features has been introduced since ABCL version 1.06. The release 1.09 is purely bug-fixing.

3 Bugs Fixed In This Version

The following bugs have been fixed in the ABCL v01.09 (compared to version 1.06):

- #47.86 and #53.69: 1 second delay between audio open in encoding/duplex and any audio data are encoded. Delay reduced to 62ms.
- #61.55: channel swap at 32kHz PCM full-duplex – decoding
- #100.33: old audio still played after audio close and reopen, resulting in noisy artefacts if volume changes

4 Known Limitations

4.1 IPAM 101

- Sampling frequencies 44.1kHz, 22.05kHz and 11.025kHz not supported in encoding-only and full duplex modes
- Input peak level indication copies left → right if mono encoding is selected
- Mono line input settings (copy signal from left channel to the right channel) not supported in combination with stereo encoding
- Significantly higher minimum decoding latency

4.2 IPAM 102

- Sampling frequencies 44.1kHz, 22.05kHz and 11.025kHz supported in encoding only, but not in full duplex
- Input peak level indication copies left → right if mono encoding is selected
- Mono line input settings (copy signal from left channel to the right channel) not supported in combination with stereo encoding
- MP3 encoder: CRC, copyright and original/copy setting not configurable
- encoding loopback (monitoring) volume not configurable
- encoding loopback 7dB weaker than IPAM 100
- 2dB output signal difference between IPAM 102 and IPAM 100 (IPAM102 weaker)

5 Major Modifications

None.

6 References

	Document
[1]	BCL Programmers Manual 1.17
[2]	ABCL Technical Documentation

7 Legal Information

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