

RELEASE NOTE

ABCL V1.16

Firmware name:	ABCL V1.16a							
Released:	2nd. June 2016							
Package name:	abcl_kit_v0116_20160602							
Version overview:	Type	File name	Version Date					
	Firmware	abclw.rom	V01.16a_20160602					
	WEB UI	abclapp.cob	V02.07_20140820					
	FW Ext. 1	sg.bin	V10.13_20160114					
	FW Ext. 2	fs.bin	V02.08_20140820					
	FW Ext. 3	bclio.bin	V02.06_20151028					
	Bootloade	UNIFULL.SPB	V99.27_20141216					

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, Instreamer new
- IPAM 100, 101, 102, 200, 300, 301, 302

2 New Features

The following new features have been added, since version V1.14, to the ABCL V1.16a.

Note, the only difference between firmware version 1.16 and 1.16a is the new sg.bin and some cosmetic changes on the web UI.

- #048.37: added GPIO control for IPAM 301 and 302
- #068.37: support for new PS16 LCD HW
- Support for OEM-362 hardware type

3 Bugs Fixed In This Version

The following bugs have been fixed in the ABCL V1.16a (since version V1.14):

- #047.99: fixed non-working AD gain on IPAM 102 in MP3 quality other than 0
- bugfix D2-119: occasional byte swap in encoded PCM L16 full-duplex (this fix made firmware version 1.16a necessary)

4 Known Bugs/Restrictions

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
- 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

This release brings support for several new hardware.

5.1 PS16

Recent versions of PS16 contain a new LCD module which is not compatible with previous versions of the software.

Use this or higher version if you own the new PS16.

5.2 IPAM 301 and 302

Drivers to control I/O on IPAM 301 and 302 have been added.

5.3 OEM362

A new hardware type OEM362 (51 decimal) has been added. It combines the I/O of IPAM 301/302 and amplifier control of the Annunicom PS1.

7 Legal Information

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Barix AG
Ringstraße 15a
8600 Dübendorf
SWITZERLAND

T +41 43 433 22 11

F +41 44 274 28 49

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