



# Release Note

## FTP MP3 V00.78

<b>Firmware name:</b>	FTP MP3 V00.78		
<b>Released:</b>	13. May. 2011		
<b>Package name:</b>	abcl_ftpmp3_xxxx_v078_20110513		
<b>Version overview:</b>	<b>Type</b>	<b>File name</b>	<b>Version Date</b>
	Firmware	abclw.rom	VB0.37_20110418
	WEB UI	abclapp.cob	V01.14_20100903
	FW Ext. 1	sg.bin	V08.18_20110222
	FW Ext. 2	fs.bin	VA2.06_20110322
	FW Ext. 3	bclio.bin	V01.18_20101110
	Bootloader	exfull.rom	V99.22_20110124
	ES Module	esnd.rom	V00.05_20091230

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# I Hardware Compatibility

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This firmware is intended to run on the following devices:

- Exstreamer 100, 110, 200, 1000
- IPAM 100, 300

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

## 2 New Features and Improvements

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The following new features and improvements have been implemented in the FTP MP3 V00.78 (compared to the last released 00.73):

- Upgrade to BCL1.5 interpreter for better performance and improved flexibility in BCL programming;
- Increased the maximum number of playlists from 40 to 100;
- Upgrade to song module v8.18;
- Upgrade to bootloader v99.22;
- Music update is now disabled by default (until explicitly specified in the *player.cfg* file);
- Added RELAY\_ON\_PLAY configuration option to enable the relay output while the playback is active;
- Added support for BARIX external serial IR dongle and built-in IR receiver;
- Added diagnostic web page that can print the current values of some variables useful for debugging purpose.
- Upgrade to ABCL FW VB0.37;
- Added support for DeLOCK Nano USB sticks;
- 056.87: Include the Host name in the HTTP requests;
- Added retry counter for FTP data connections.

## 3 Removed Features

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The following features have been removed (discontinued) starting from V071, are valid also for V076:

- Receiving audio messages using the priority port is not possible any more. The relevant configuration parameters (*PRIORITY\_PORT*, *PRIORITY\_VOLUME*, *PRIORITY\_BUFFER*) are not supported.

## 4 Bugs Fixed In This Version

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The following bugs have been fixed in the FTP MP3 V00.78 (compared to the last released 00.73):

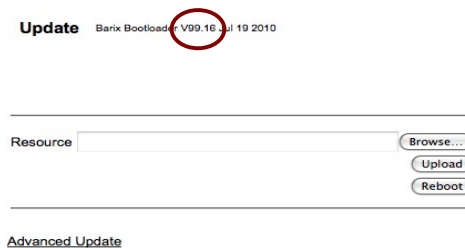
- Bug 056.75: The config file downloaded after boot is not parsed to update the values according to its contents
- Bug 056.76: The player does not update the configuration if the local config file has CONFIG\_UPDATE=3600 set
- Bug 056.77: Configuration may not work correctly if switched from CONFIG\_UPDATE to UPDATE\_DAILY\_TIME
- Bug 056.78: Music is not updated when the file deletion process starts
- Bug 056.83: The device randomly closes the FTP control connection for some files
- Bug 056.84: Directory listing is broken when short playlist is looped
- Bug 047.58: Random device reboots due to FW crash after 3-4 hours of FTPMP3 FW operation
- Bug 056.89: The music playback may stop when the Barimon server is down

## 5 Other remarks and known issues

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### 5.1 Upgrading to the new bootloader

To be able to upgrade to the new bootloader, a serial update should be performed. Loading only the **compound.bin** using the web update will **NOT** change the bootloader. If serial update is not possible, the bootloader may be upgraded by uploading the **unifull.spb** file to WEB9 web page using the advanced web update. In this case the new bootloader will be updated during the next boot. However, this will destroy the BCL application, so it is advised to do the bootloader update **BEFORE** uploading the **compound.bin** file. If you have already updated the **compound.bin** file, you need to reflash it again after the bootloader update. After that boot the device, and go to the web update page again. You should see the new version (greater than 99.15) there:



### 5.2 Playback and MP3 bitrates

In spite of the improved USB read performance introduced in v00.73, the playback may still be disturbed when there is a parallel USB disk access (for example downloading files and/or requesting the directory listing while playing a song at the same time), and the used MP3 bitrate is too high. In this case the following actions may help to avoid this:

- Try to avoid using bitrates higher than 144

kbits/second in the MP3 files;

- If using FAT32, increase the cluster size (for example use 32k instead of the default 4k) when formatting the USB stick.

### 5.3 Operative timeout

Starting from V0.75, the default operative timeout for FTP and HTTP connections has been changed from 1000 ms to 5000 ms. This means that FTP\_MP3 will wait for 5 seconds for server response before closing the connection. This will not affect the performance of the SW, but will give more reliability downloading files in cases of high network latency.

However, this value can be always overridden by adding in your `player.cfg` file the line:

**OPERATIVE\_TIMEOUT=*value***

where ***value*** is the desired timeout in milliseconds.

## 6 Release generating details<sup>1</sup>

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### 6.1 CVS release tag

```
abcl_ftmp3_v078_20110513
```

### 6.2 Compile commands:

```
make ab_ftmp3_xxxx NOBAS_IN_COB=1
```

where xxxx is the release which needs customised settings

### 6.3 Regenerating the FW image

The source code of the FTP\_MP3 application is too big in size, and cannot fit into the COB file together with the tokenized BCL code. The generated release already has the source code stripped out of the FW image. However, if for some reason manual rebuild of the FW is needed, then the *applications.sh* script has to be run with the **-no\_source** option to regenerate the *applications.cob* file:

```
./applications.sh -no_source
```

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<sup>1</sup> This information is intended for BARIX developers only

## 7 Legal Information

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