

## Topfield MP3 Jukebox

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**Current Version:** 2.1d  
**Tested w. Firmware:** 5.12.25 / 5.12.25PH / 5.12.88 / 5.12.88PH  
**Test Hardware:** UK TF5800 (Silver) / Also reported to work on TF5000/TF5500  
**Download Location :** <http://www.netgio.com/MP3Player.tap>  
**Credits – eye of ra (for hours of testing and ideas!!)**

***NOTE: TF5800 users – Please install RemoteExtender for full functionality.***


***NOTE: TF5000 users – TV mode requires Feb 06 Firmware or later.***

### ***Running the TAP***

The tap is designed to run from AutoStart and will run in the background until it is activated, simply copy the file to the AutoStart folder. It can also be copied to the ProgramFiles folder, you will then need to run MP3 Jukebox from the Tappy archive before activation.

***NOTE: If the RemoteExtender TAP is not installed some functionality is not enabled.***

### ***Activation***

Once running the MP3 Jukebox can be activated using the activation button. By default this is the “TV/Sat”  button on the remote (just above digit “2” with the radar dish icon). It can be configured to an alternative key from the Setup Screen (see page 12).

### ***Deactivation (return to TV or Radio)***

Press the “Exit” button from the main screen or press “Guide” and use the “Back to TV” option on the pop up menu. After deactivation the TAP will stay in memory and respond to the activation key.

### ***Exiting the Jukebox (unload the TAP)***

To exit the TAP after activation, press “Guide” from the main screen and select “Exit TAP” option on the pop up menu. This will return all buttons to their prior use and unload the Jukebox. After exiting, the TAP will be unloaded from memory and will not respond to the activation key.

### ***Configuration Data***

The data structures holding Jukebox configuration settings (user controllable and system) are written to files ending “.jbc” in the ProgramFiles folder. To reset your configuration you must delete these files using Altair, or reset to defaults (“red” key) from the Setup screen. When saved the previous version is stored to a temp “.jbc” file to allow (very) basic restore to be supported (to restore, use Altair to delete the JukeBoxConfig\_2\_1.jbc file and rename the JukeBoxConfig\_2\_1\_Temp.jbc file).

## Playlist Data

Playlists allow you to define collections of tracks for playback and each playlist is saved as a file. To specify the filename for a playlist press the “white” button when on a Playlist view screen. Use the keyboard to enter a name, then press “stop” followed by “green” to save the playlist. Filenames entered using this screen will automatically have the “.jbl” extension added. All playlists have a “.jbl” file extension and are stored in the folder MP3\Jukebox Playlists. Playlists up to 1000 songs have been successfully created and tested, but the final size limit is related to memory available on the Topy.

To remove a playlist (will still be visible using Altair), from the <All> playlist view press “blue” to clear the items and then press “green” to save. To delete the playlist file from the hard drive you need to use Altair.

## Creating Playlists on your PC

Playlists can be created from simple text files on the PC using the txt2jbl script. This can be downloaded from <http://www.netgio.com/txt2jbl.zip>. This zip file contains a Windows Script file that has been tested on Windows XP.

The format of the input text file is consistent with the M3U standard and uses one line per file path, any lines starting with “#” treated as comments – for example:

```
# This is a sample text playlist
C:\My Music\AC-DC\Back in Black\Hell's Bells.mp3
C:\My Music\Dan Reed Network\Slam\Cruise Together.mp3
California.mp3
# Some more files
C:\My Music\Def Leppard\Hysteria\Armageddon It.mp3
C:\My Music\Queen\A Kind of Magic\Princes of the Universe.mp3
```

To use the script, save it to a folder on your PC and open a command prompt (Program Files/Run.../cmd.exe). You can run the script with the following command line:

```
Cscript <path>\txt2jbl.vbs <input file> <output file> <PC MP3 Root> <Topy MP3 Root>
```

For example, if my MP3 folder structure on the PC is in “C:\My Music” and I’ve just copied it to the “MP3” folder on the Topy the command line would be something like:

```
Cscript txt2jbl.vbs source.txt target.jbl "C:\My Music" "MP3"
```

Make sure that you include double quotes around any parameters that contain spaces.

One hint is to review your M3U files in Notepad to determine how the PC root URL should be formatted, for example Windows Media Player will use a “relative” paths like this:

```
..\..\..\..\..\Media\My Music\Arctic Monkeys\Whatever People Say I Am That's
What I'm Not [UK]\09 Mardy Bum.mp3.
```

So the <PC MP3 root> on the command line would be:

```
"..\..\..\..\..\Media\My Music"
```

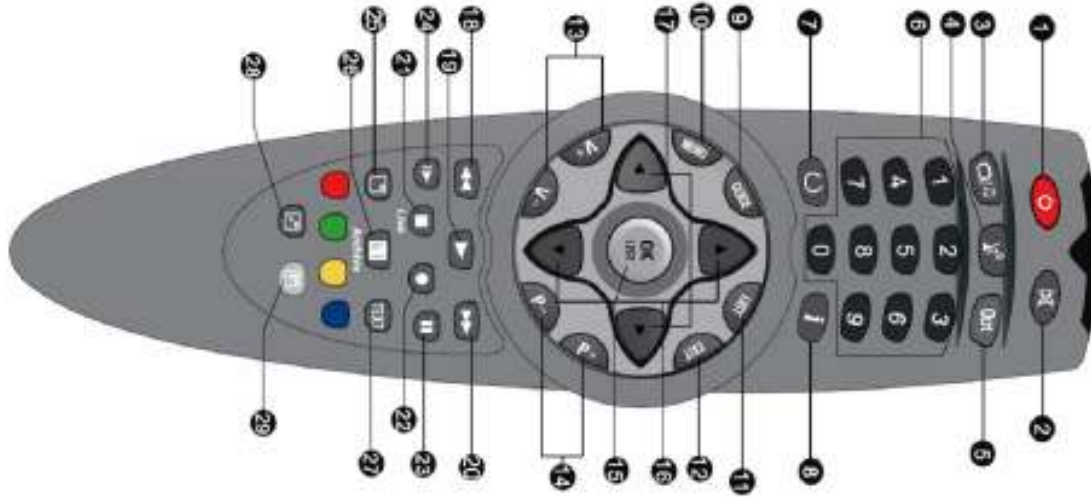
NOTE: This utility works best if your MP3s share a common root folder on the PC and you copied the contents of that folder to the Topyy "as is". If they do not then you can manually create the playlist files using Notepad using the MP3 folder structure on the Topyy. So, for example if you create a M3U file like this:

```
# This is a Topyy structured text playlist
MP3\AC-DC\Back in Black\Hell's Bells.mp3
MP3\Dan Reed Network\Slam\Cruise Together.mp3
MP3\Red Hot Chilli Peppers\Stadium Arcadium - Disc 1\Dani
```

The command line would then be like this:

```
Cscript <path>\txt2jbl.vbs <input file> <output file> "MP3" "MP3"
```

### Jukebox Remote Control Keys




**Remote key functions for main screens:**

Key	Function	Main Screen	Playlist	Folder
9	Guide	Pop-up menu.		
10	Menu	Access Setup screen (config options).	Access Setup screen (config options).	Access Setup screen (config options).
26	Archive	Access Folder view.	Access Folder view.	Jump to folder of current (now) track.
11	List	Access Playlist view.		Access Playlist view.
9	<i>i</i> – Info	Search for files.	Search for files.	Search for files.
16	OK	Toggle screensaver - or - Toggle Full Screen TV (when in TV Preview mode) - or - Select (When pop-up menu visible).	Play the Playlist (in Playlist sequential mode) and return to main screen.	Play the selected folder (in Folder Sequential Mode) and return to main screen - or - Play the selected track and return to main screen - or - Play the selected PlayList (in PlayList Sequential Mode) and return to main screen.

Key	Function	Main Screen	Playlist	Folder
19	▶ - Play	Start play after activation - or - Restart current track - or - Resume from pause.	Play the Playlist (in Playlist sequential mode) and remains in Playlist view.	Play the selected folder (in Folder Sequential Mode) and remains in Folder view - or - Play the selected Track and remains in folder browser - or - Play the selected Playlist (in Playlist Sequential Mode) and remains in Folder view.
21	■ - Stop	Stop playback.	Stop playback.	Stop playback.
18	◀◀ - Rewind	Play previous track.	Page Up.	Page Up.
20	▶▶ - Forward	Skip to next track.	Page Down.	Page Down.
24	▶▶ - Slow	Skip to next folder (Folder play modes only).	Play the selected file and continues from the selected track and remains in Playlist view. (Playlist Sequential/Repeat only)	Play the selected file and continues from the selected track and remains in Folder view. (Folder Sequential/Repeat only)
22	● - Record	Toggle the play mode.	Jump to current (now) track (only in playlist modes and <all> view).	Jump to current (now) track.
23	▬▬ (Pause)	Pause playback of the current track - or - Resume from pause. <i>NOTE: Not available for VBR MP3 files.</i>	Copy playback history to current playlist.	
	■ - Red	Add "Now" track to current playlist.	Remove the selected item.	Add the selected file to current playlist.
	■ - Green	Add "Next" track to playlist.	Save the playlist.	Jump to playlists folder.
	■ - Yellow	Find a new "Next" track.	Load the playlist.	Load the selected playlist file (only .jbl files).

Key	Function	Main Screen	Playlist	Folder
	■ - Blue	Toggle TV Preview 1) None 2) TV 3) Radio - or - Turns preview off and view to default (from Full screen TV preview). <i>NOTE: TV Preview is only accessible in display modes that show album art</i>	Clear all visible items from the playlist.	
13	V+ / V- (TF5800 only) (4 / 6 = Alternative keys for TF5000 users)	Adjust Volume/unmute audio.	Adjust Volume/unmute audio. <i>NOTE: Only available when SimonC's RemoteExtender v1.3 TAP is running.</i>	Adjust Volume/unmute audio. <i>NOTE: Only available when SimonC's RemoteExtender v1.3 TAP is running.</i>
	P+/P- (TF5800 only) (2 / 8 = Alternative keys for TF5000 users)	TV Preview only: Change Preview Channel	Same as ▲ / ▼ (Up/Down)	Same as ▲ / ▼ (Up/Down)
2	Mute	Mute/un-mute audio.	Mute/un-mute audio.	Mute/un-mute audio.
16	▲ / ▼ (Up/Down)	Navigate pop up menu options (when visible).	Navigate listed files/folders.	Navigate listed files/folders.
17	◀ / ▶ (Left/Right)	Toggle between display modes. (Default, Full Screen, Compact, Compact (No Art), Large Text (No Art), Blank Screen).	Toggle Playlist "filtered" views (ALL, SEARCH, LAST SEARCH, HISTORY, MANUAL).	Back to previous folder / View contents of selected folder.
12	Exit	Deactivate Jukebox (Return to TV or Radio).	Return to Main screen.	Return to Main screen.
25	PIP or "1" (▶ on non-		Plays from below the selected track, sets play mode to Playlist	Play track below the selected track.

	TF5800 remotes)		Sequential and remains in Playlist view.	
27	Text or “3” (  on non-TF5800 remotes)		Plays from above the selected track, sets play mode to Playlist Sequential and remains in Playlist view.	Play track above the selected track.

Key	Function	Main Screen	Playlist	Folder
28	PIP Switch		Set selected track to play next (Full Random and Anti Playlist modes only).	Set selected track to play next (Full Random and Anti Playlist modes only).
7	↻ - Recall		Plays the current Playlist from the selected track, sets play mode to Playlist Sequential and remains in Playlist view.	Plays the current folder from the selected track, sets play mode to Folder Sequential and remains in Folder view.
29	White		Edit playlist filename.	
6	“8”		Move selected item up (only in <ALL> view).	
6	“0”		Move selected item down (only in <ALL> view).	

**Other remote key functions for supplementary screens:**

Key	Function	Setup	Keyboard
26	Archive	Access Folder view.	
11	List	Access Playlist view.	
16	OK		Insert selected letter.
19	▶ - Play		Toggle shift mode (Caps/Lowers/Symbols).
21	■ - Stop	Stop playback.	Accept text and search (adds results to existing search list).
18	◀ - Rewind		Delete last letter.
20	▶ - Forward		Insert space.
22	● - Record		Accept text and search (clears existing search list).
	■ - Blue	Delete the global MP3 cache.	Clear keyboard text.
13	Vol + / Vol -	Adjust Volume/un-mute audio.	Adjust Volume/un-mute audio.
16	▲ / ▼ (Up/Down)	Navigate Setup options.	Navigate letters.
17	◀ / ▶ (Left/Right)	Toggle selections.	Navigate letters.
12	Exit	Return to main screen.	Cancel search and return to main screen.

## Main Playback Screen

The default screen shows information relating to the current (now) track, and the name and location of the next track and allows access to the pop up screen menu.

### Screen Layout (Default mode)



**Progress Bar** – This bar shows the progress of the current track as a bar graph, percentage played, the Elapsed playback time and the Track duration. This information is updated every 1-2 seconds during playback and will be less accurate for VBR files.

**Volume Bar** – The current volume level and mute status.

**“Info” bar** – Displays messages and errors to the user

**Album Art display** – Will display the image file “folder.jpg” (if available and decodable) that is in the folder of the currently playing track, allowing an individual images for each folder. It could be album art or your own .jpg image, just rename it.

If no folder.jpg file is found Jukebox will look for a file called “jukebox.jpg” in the MP3 root folder, enabling you to add a global image that will be used for all tracks and the screensaver, if an individual image is not found or required. Images will be scaled to fit the area and take longer to load the larger the file size. (This has been tested with a variety of different image sizes).

**Windows Media Player Users** : Folder art gathered by Windows Media Player is stored as a “protected” system file on Windows. These files are transferred to the Topy by Altair when copying folders but are not visible in Altair. A Windows script to unprotect and make them visible can be downloaded from <http://www.netgio.com/unprotect.zip>.

**Mode** – Displays the current play mode (in Folder playmodes and playlist playmodes the track number and total tracks are displayed below).

**ID3 Track Info** – Displays the track info from the ID3v1 or v1.1 tag of the current file.

**Bit/Sample rate** – Bit and sample rate of playing file, (approximated for VBR files with the appropriate VBR headers).

**Now file** – Displays the filename and folder of the track being played.

**Next file** – Displays the filename and folder of the next track to be played.

**Pop Up Menu** – Displayed by pressing the “Guide” key from the main playback screen.

**Config Screen** – Displayed by pressing the “Menu” key from any screen (except keyboard).

### Alternate Screen Layouts

Compact with Album Art



Full Screen TV Preview



Full Screen with Album Art



Compact without Album Art



Large Font without Album Art





## Setup Screen (Config)

Allows you to edit the system configuration – this is saved to disk and is automatically loaded at start-up.



Setting	Functionality
<b>AutoStart</b>	<b>ON</b> = playback will start immediately when the TAP is activated. <b>OFF</b> = you will need to press play, FFwd or Rwd after activation to trigger playback.
<b>Font Size</b>	<b>Small, Medium</b> or <b>Large</b> (applies to Folder Browser and PlayList screens).
<b>PlayBack mode at startup</b>	<b>Play All Random</b> - Plays all tracks randomly. <b>Play Folder Sequential</b> - Plays folder tracks in order then moves to a new random folder. <b>Play Folder Repeat</b> - Repeatedly plays selected folder only, sequentially. <b>Play Folder Random</b> - Repeatedly plays selected folder only, randomly. <b>Play Folder and Stop</b> - Plays selected folder only, sequentially then stops. <b>Playlist Sequential</b> - Repeatedly plays playlist, sequentially. <b>Playlist Random</b> - Repeatedly plays selected playlist, randomly. <b>Anti-PlayList</b> - Plays all tracks randomly, except tracks in list). <b>Last Mode Used</b> - Starts MP3 Jukebox in last used play mode).
<b>PlayList Sort mode</b>	Allow you to switch the order in which files in folders are played in Folder Sequential mode.

Setting	Functionality
<b>Skin Name</b>	Select the skin file to use using left and right – the UI will update to use the new skin as you browse through. The Skins available are the .mcf files (MyStuff skin files) located in the ProgramFiles/Settings/Skins folder or the original ProgramFiles folder. “Default” will use the built in colour scheme.
<b>Display Mode at Startup</b>	<p><b>Default</b> (display scaled as part of playback info)</p> <p><b>Full screen</b> : (no playback info displayed but progress bar will be displayed).</p> <p><b>Compact</b> - Display Album art in small format).</p> <p><b>Compact (no art)</b> – Display compact information with no album art.</p> <p><b>Large (no art)</b> – Large text with no album art.</p> <p><b>Blank Screen</b> – Shows a blank screen during playback – Don’t forget that your TV is on!!</p> <p><b>Last mode user</b> – remember the last display mode used</p>
<b>Play Sub Folders</b>	<p><b>ON</b> : When playing folders or adding them to playlists sub folders will be played/added.</p> <p><b>OFF</b> : only the selected folder contents will be used.</p>
<b>Activation Key</b>	<b>TV/Sat, Recall</b> or <b>Info, TV/Sat, White.</b>
<b>Debug Log :</b>	<b>ON/OFF</b> – When ON writes a debug log file to the ProgramFiles folder, also displays additional messages into the Info bar.
<b>Screen Offset :X &amp; Y</b>	Range between -39 and +39 pixels of offset from the default position – use left and right to adjust.
<b>Random Search Mode</b>	<p><b>Default</b> – This method treats all folders as equal even if they contain fewer albums or tracks and effectively means (assuming Artist/Album/track folder structure) that artists are selected randomly first, then an album within the artist, then a track within the album. Artists with few tracks will be played as often as those with many tracks.</p> <p><b>Pre-Scan</b> – This option will scan your MP3 folder to create a global Playlist containing all MP3s up to the Maximum number specified in the next setting. This is memory hungry (as all filenames and paths are stored in memory. The scan will occur the first time a new track needs to be located, or if the Max PlayList Size setting is changed. Pre-Scan is truly random and will not favour artists based on folder structure.</p> <p><b>VERY IMPORTANT NOTE:</b> When you add or remove tracks on the toppy you need to clear the Pre-Scan cache (Setup Screen and press “blue”).</p> <p><b>NOTE :</b> Pre-Scanning a collection of about 3500 songs takes approximately 2 minutes.</p>

Setting	Functionality
<b>Pre-Scan Max PlayList Size</b>	Specifies the maximum number of tracks to cache for random playback when “Pre Scan” mode (see above) is selected. Default is 10000 (tested up to 3600 MP3s). Set in increments of 500, (min 500, max 20000). Reducing this number will reduce memory, but will also result in some tracks not being played in Full Random Mode if you have more MP3s than the value set here.
<b>Album Art Width Scaling</b>	Scale the width of the image by the specified amount (positive makes it wider, negative makes it narrower)
<b>Maximum History Count</b>	Number of files to hold in the history (default is 100. When this setting is changed any existing history is cleared).
<b>Screensaver mode</b>	<p><b>None – Screensaver disabled</b></p> <p><b>Album Art</b> – Moving album art screensaver enabled. This will move the album art (if present) or jukebox.jpg (if present) around the screen to prevent screen burn.</p> <p><b>Blank Screen</b>– Blank screen enabled. Screen is blanked after screensaver timeout.</p>
<b>Screensaver Delay (secs)</b>	Number of seconds to wait before activating the screensaver.
<b>Background TV Channel</b>	<p>Select the TV Channel to be used as the background sound (select a “silent” channel to eliminate sound between tracks, eg a teletext channel).</p> <p><i>NOTE : During use sound between tracks may return if the tuner being used by JB is required for a recording.</i></p>
<b>■ - Defaults</b>	Restores all config settings to defaults.
<b>■ - Save</b>	<p>Saves settings.</p> <p><i>NOTE: Settings are automatically saved to disk at a number of points during normal operation, this option simply forces the save to occur immediately.</i></p>
<b>■ - Load</b>	<p>Resets config to saved settings.</p> <p><i>NOTE: Once new settings are saved, use Altair to restore to previous settings. (see “configuration data” page 1).</i></p>
<b>■ - Clear Cache</b>	Clears Pre-Scan file. – the next search or random track selection will regenerate the cache (if Random Search Mode is set to pre-scan).

## Change Log

### **Jukebox 2.1d**

1. Added WSSKiller support to force aspect ratio on activation.
2. Modified Album art logic to choose Folder.jpg first – if not found, the next jpg is used.
3. Fix: Keyboard display bug when pressing “i” from screensaver
4. Fix: Screen refresh when skipping tracks from screensaver
5. Fix: Screensaver kicking in when using the keyboard.
6. Enhancement: Relocated most startup and key processing to Idle events (may help TF6000 users)

### **Jukebox 2.1c**

1. Fix: Exiting from Screensaver leaves main screen displayed w. weird PIP issue.
2. Fix: For skins without “DirForeground” use the “TextForeground” colour (rather than the colour from the default skin)

### **Jukebox 2.1b**

1. Enhancement: Added alternative TV Preview (Vol & Channel) keys for TF5000 users
2. Fix: Play list view scrolling some times moves screen before last item is selected and selected item is sometimes invisible or not highlighted on first display.
3. Enhancement: Folder text colour (in File browser AND PlayList) can be controlled with a new “non-MyStuff” skin variable called “DirForeground”
4. Change: Config file now located in “ProgramFiles/Settings/MP3Jukebox” to be consistent with new agreement with other TAP authors
5. Change: Skin files can be located in ProgramFiles/Settings/Skins (new location for future TAPs using MyStuff skins) or “ProgramFiles”.
6. Fix : Added single quote to keyboard layout – makes searching for “I’m” possible.
7. Fix: Distinguish between TV/Radio and List for activation when RE is installed.
8. Fix: Disable screensaver when TV preview is enabled.
9. Enhancement: new DirForground skin element used to provide different text colour for folder names and paths on the main, folder and playlist screens.

### **Jukebox 2.1a**

1. Fixed: Resolved crashes due to empty MP3 folders containing no MP3 files at the root level.
2. Fixed: resolved Left/Right view-mode toggle bug.

### **Jukebox 2.1**

1. Enhancement: New UI with rounded corners, realigned all screens to be the same size
2. Enhancement: Support for MyStuff skin files – selectable in the config screen
3. Enhancement: TV and Radio preview option – press “blue” to toggle between album art and TV preview and Radio preview. Use Ch+/- to change channel. Preview sound is only played when track is stopped or paused. Press OK to toggle Full screen TV while previewing.

4. Enhancement: Playlist screen now support filtering of lists (All, Manually added, search added or added from history), switch between views using <left and right>.
5. Enhancement: After a search Playlist is shown filtered so that only search items are visible.
6. Enhancement: Use blue button to clear keyboard text.
7. Enhancement: Background TV channel to be used when jukebox is enabled can be set in the config screen.
8. Enhancement: Remote Extender support for volume control in all pages.
9. Change: TF5800 mode and “Always mute between tracks” are removed from config and behaviour is always as if these are OFF and ON respectively.
10. Change: AutoStore Playlists option forced to true and config option replaced with skin selection.
11. Bug fix: Next track info not updated after some playmode changes
12. Bug fix: new code to prevent a full folder scan when playing tracks in the MP3 folder (i.e. tracks not in any sub folders)
13. Bug fix: Track number for last track in a folder/playlist is displayed incorrectly in info bar.