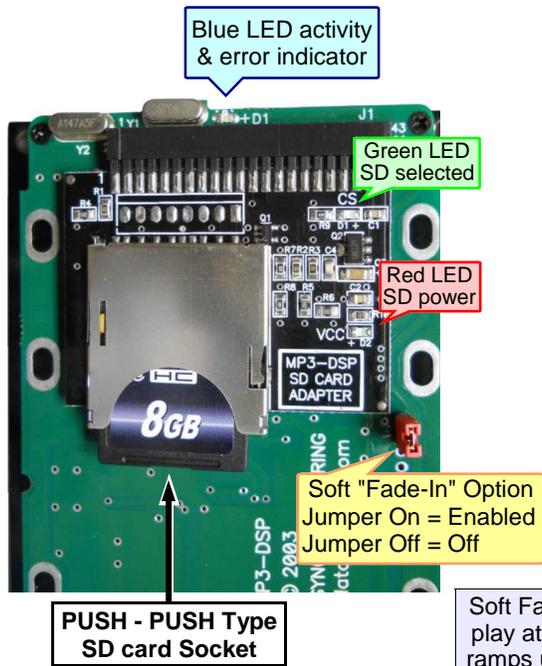For the past several years, we have been providing reliable player systems that employed either a Hard Disk Drive or Compact Flash memory card. Both of these storage mediums utilized an electronic interface known as the Integrated Drive Electronics (IDE) bus or the Advanced Technology Attachment (ATA).

With the advances in Flash Memory technology, as used in Smart Phones, Cameras and Audio Players, the Secure Digital Memory Card (or SD Card) has become the popular choice for low cost, high-capacity storage in a small 9-pin flash card.

As we transition our MP3-DSP players to SD Card, we will no longer support the now obsolete IDE bus technology.

All upgraded kits now include a 16GB SD Card and USB SD Reader/Writer. Complete Kit, nothing else to buy !

When power is applied to the Digital Player, the blue LED turns on for about 3-sec, turns off, then begins rapid blinking during file indexing. When done, the LED remains off until a selection.

Blue LED activity & error indicator

Green LED SD selected

Red LED SD power

Soft "Fade-In" Option
Jumper On = Enabled
Jumper Off = Off

PUSH - PUSH Type SD card Socket

Soft Fade-In starts song play at low volume then ramps up to the set level

FAULTS - SD CARD MP3 PLAYER (Blue LED)	
Blinks	**Error Description**
1	**Failed Hardware Test Diagnostics**
2	**FAT32 Filesystem Was Not Found**
3	**No Folders Found**
4	**No MP3 Files Found**
	If players blue LED rapidly flashing dim and green LED always on No SD Memory Card in Socket or Defective SD Card
	If players blue LED repeating long flash & green LED short flicker Wrong Memory Card Type or Defective SD Card

SD MEMORY CARD CAPACITIES		
SD SIZE	**SONGS @192Kbps**	**Avg Tracks for 100 CD**
8GB	1,600	16
16GB	3,200	32
32GB	6,400	64
64GB	12,800	99

USB2.0 SD reader

Standard SD card

Micro SD card with Adapter

The SD Memory Card Formatter can be Downloaded here
https://www.sdcard.org/downloads/formatter_4/

To format media above 32GB as FAT32, you can run "guiformat.exe"
which is available here www.ridgecrop.demon.co.uk/guiformat.htm

Data Sync Engineering
PO Box 539, Footbridge Lane, Bldg 2
Blairstown, New Jersey 07825

TEL: (908) 362-6299
http://www.cdadapter.com
sales@datasynceng.com

ABOUT THE SONG FOLDERS AND FILES

Folders and the MP3 Files within the folders represent each CD disc selection. The first two letters of the folder name and the MP3 file names must begin with two numeric digits to identify their CD and Track number positions.
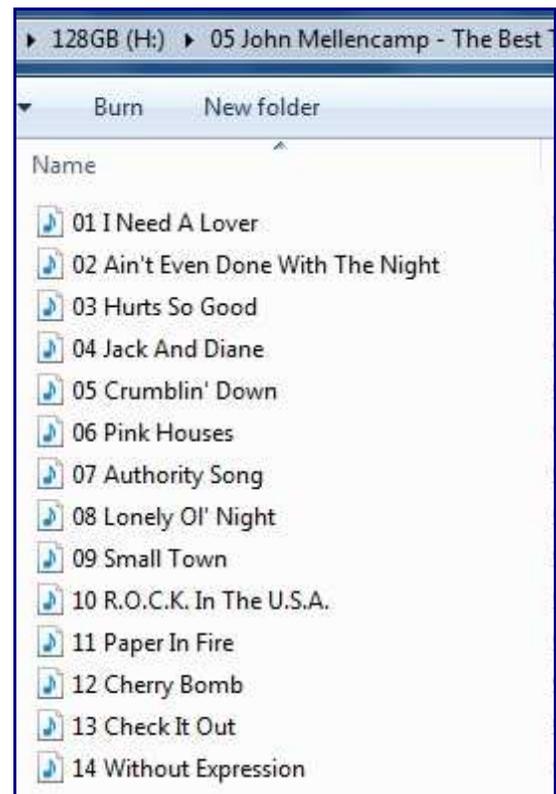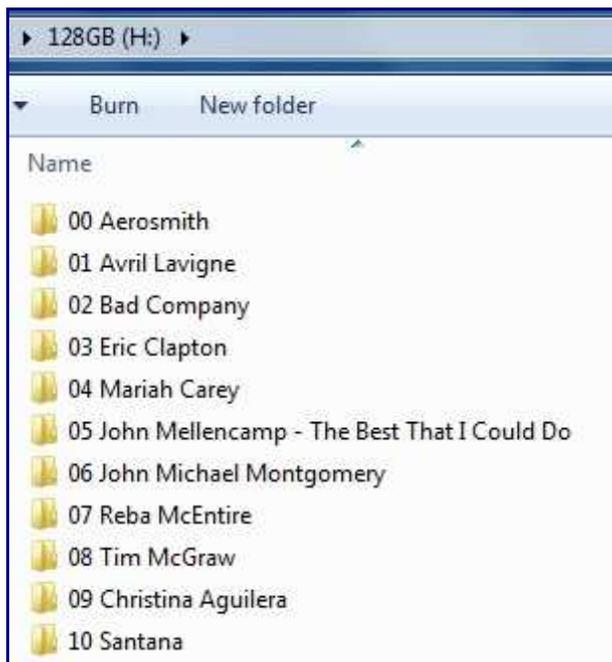
For a 100 CD jukebox, you would create 100 folders. Each folder name starts with a two digit number from 01 to 99 & 00 for CD# 100. If you want, you can add your own text such as the album name "40 Tom Petty - Greatest Hits".

The SD Player supports up to 99 tracks on each CD. Each MP3 song name starts with a two digit number from 01 to 99 (CD's do not have track 00). Track numbering must be sequential just like CD's. Missing or duplicate track numbers are not allowed. If you want, you can add your own song name text such as "13 Runnin' Down a Dream".

To create the MP3 song files from your CD you would use a program to "Rip" the CD tracks to MP3. **Windows Media Player** can be used but make sure, in the Options menu, that the Format is set for MP3 (not WMA). There are many other rippers, such as one by **www.poikosoft.com**, that will automatically insert the track numbers and song names.

Another consideration is the bit rate. The bit rate is similar to the resolution of a photo, lower resolution will produce a fuzzy image. For music, bit rates below 128Kbps may start to sound grainy. You can't tell much of a difference using the maximum bit rate of 320Kbps other than very large file sizes. Many agree that the bit rate of 192Kbps is very close to CD quality (as we recommend). Besides, jukeboxes are well tuned and can make anything sound great.

EXAMPLE FOLDERS AND THE FILES WITHIN A FOLDER

128GB (H:)	128GB (H:) ▸ 05 John Mellencamp - The Best
Burn New folder	Burn New folder
Name	**Name**
📁 00 Aerosmith	🎵 01 I Need A Lover
📁 01 Avril Lavigne	🎵 02 Ain't Even Done With The Night
📁 02 Bad Company	🎵 03 Hurts So Good
📁 03 Eric Clapton	🎵 04 Jack And Diane
📁 04 Mariah Carey	🎵 05 Crumblin' Down
📁 05 John Mellencamp - The Best That I Could Do	🎵 06 Pink Houses
📁 06 John Michael Montgomery	🎵 07 Authority Song
📁 07 Reba McEntire	🎵 08 Lonely Ol' Night
📁 08 Tim McGraw	🎵 09 Small Town
📁 09 Christina Aguilera	🎵 10 R.O.C.K. In The U.S.A.
📁 10 Santana	🎵 11 Paper In Fire
	🎵 12 Cherry Bomb
	🎵 13 Check It Out
	🎵 14 Without Expression

These are the actual images of a working jukebox
SD card (from Windows Explorer)

The image above is a part of the 100 folders

The image to the right is the contents of folder "05"

> You will use about 50GB for a fully loaded
> jukebox having 99 tracks on all 100 CD's