

**SIMPLWINDOWS NAME:** Escient Tunebase Pro MK-II Digital Jukebox

**CATEGORY:** Computer

**VERSION:** 1.0

**SUMMARY:** Provides full control of the Tunebase system

**GENERAL NOTES:** This module will provide full control of an Escient Tunebase Pro MK-II Jukebox system. It utilizes a Simpl+ module, and can therefore only be used with a Generation CNX system. It includes the following controls:

1. All basic controls
2. Browsing for individual CD's and tracks
3. Access and controls for each of the four modes of operation
4. A listing of the first 32 tracks on the selected CD
5. Access to search functions by track number, disc number, disc title, and disc artist

It is important to note that the Tunebase system will ignore most commands which it receives while it is loading a new disc.

There are browsing functions for browsing through discs, tracks, and songlists, before selecting them for play. For each browse function, there is a previous, next and select button, as well as a text field indicating the returned information.

Note that some functions are used in multiple play modes. Examine the Sample program and touchpanel for further information on which functions are repeated.

Also note that all digital inputs should be momentary, as if coming from buttons on a touchpanel.

**CRESTRON HARDWARE:** CNXCOM, ST-COM

**SETUP OF CRESTRON HARDWARE:** Baud Rate - 9600  
Parity - None  
Data Bits - 8  
Stop Bits - 1

**VENDOR FIRMWARE:** 3.5.6

**VENDOR SETUP:** The Tunebase system must be configured according to the Tunebase Installation Guide for communications with a Crestron Control System.

**CABLE NUMBER:** Variable - Consult Escient manual

## CONTROL:

<b>MODE-*</b>	D	Used to select one of the four available play modes on the Tunebase. True feedback is provided
<b>SORT-*</b>	D	Used to select if CD's should be sorted by artist or title
<b>CATEGORY-*</b>	D	Used to activate/deactivate any of up to 8 categories of music. True feedback is provided
<b>MENU-*</b>	D	Used to activate the simple menu commands

Standard transport controls. Note that

<b>TRANSPORT CONTROLS</b>	D	after selecting a new disc, further commands may be ignored until the disc is loaded.
<b>BROWSE-CD-*</b>	D	Used to browse through the available Discs. When the desired CD is found, it can be selected for play.
<b>BROWSE-TRACK-*</b>	D	Used to browse the tracks available on the selected CD. When the desired track is found, it can be selected for play.
<b>RANDOM-1/ALL</b>	D	Used to select one of the two available random play modes
<b>RANDOM-SKIP-NEXT</b>	D	Used to select a different disc for the next random selection
<b>FIVE-ONE/CONT/SHUFFLE</b>	D	Used to select one of the three available five CD play modes
<b>FIVE-DISC-*</b>	D	Used to select one of the five CD's available in the five CD play mode
<b>SONGLIST-ONCE/CONT/SHUF</b>	D	Used to select one of the three available songlist play modes
<b>SONGLIST-BROWSE/SELECT</b>	D	Used to browse through the available songlists. When the desired list is found, it can be selected
<b>TRACK-*</b>	D	Used to select which track (1-32) is to be played
<b>SEARCH-TITLE</b>	D	Used to start searching for a disc by title. Should flip pages to a computer keyboard entry page
<b>SEARCH-ARTIST</b>	D	Used to start searching for a disc by artist. Should flip pages to a computer keyboard entry page
<b>SEARCH-DISC</b>	D	Used to start searching for a disc by disc and player number. Should bring up a subpage for entering the disc and player information
<b>SEARCH-TRACK</b>	D	Used to start searching for a track by track number. Should bring up a sub page for entering the track number
<b>KEY-*</b>	D	Computer keyboard used to enter information for a title or artist search
<b>CD-*</b>	D	Numeric keypad used for entering the CD number to be played
<b>CD-ENTER</b>	D	Used to submit the CD and CD Tray numbers previously entered
<b>CD-TRAY-*</b>	D	Numeric keypad used for entering the tray number to be selected
<b>TRACK-*</b>	D	Numeric keypad used for entering the Track number to be played
<b>TRACK-ENTER</b>	D	Used to submit the previously entered track number
<b>SEARCH-TYPE-CAT</b>	D	Used to put the Tunebase system into search selected categories mode
<b>SEARCH-TYPE-ALL</b>	D	Used to put the Tunebase system into search all discs mode
<b>SEARCH-FIRST/PREV/</b>	D	Used to scroll through the search list
<b>POLL</b>	D	Used to poll the Tunebase system for categories, play mode, and current CD information. Should only be needed on startup of the system
<b>ESCIENT-RX\$</b>	S	Serial signal to be routed from a 2-way RS232 port

Specifies the maximum number of

**MAXIMUM-CHARACTERS** P characters which will be displayed for any CD name/artist/track on the serial outputs of this module

## FEEDBACK:

<b>MODE-* -FB</b>	D	True feedback indicating the currently selected play mode
<b>SORT-* -FB</b>	D	Simulated feedback indicating the current sort order
<b>CATEGORY-* -ON-FB</b>	D	True feedback indicating the currently selected categories
<b>CATEGORY-* \$</b>	S	Serial signals containing the current category names
<b>PLAY/STOP/PAUSE-FB</b>	D	True feedback indicating the current Play/Stop/Pause state
<b>DISC-NAME\$</b>	S	Serial signal indicating the currently playing disc name
<b>DISC-ARTIST\$</b>	S	Serial signal indicating the currently playing disc artist
<b>DISC-NUMBER\$</b>	S	Serial signal indicating the currently playing disc number
<b>TRACK-NAME\$</b>	S	Serial signal indicating the currently playing track name
<b>TRACK-NUMBER\$</b>	S	Serial signal indicating the currently selected track number
<b>BROWSE-CD-TITLE\$</b>	S	Serial signal indicating the CD title selected while browsing
<b>BROWSE-CD-ARTIST\$</b>	S	Serial signal indicating the CD artist selected while browsing
<b>BROWSE-TRACK-TITLE</b>	S	Serial signal indicating the track selected while browsing
<b>FIVE-DISC-TITLE-* \$</b>	S	Serial signals indicating the titles for the 5 CD's loaded for five CD play mode
<b>FIVE-DISC-ARTIST-* \$</b>	S	Serial signals indicating the artists of the 5 CD's loaded for five CD play mode
<b>BROWSE-SONGLIST\$</b>	S	Serial signal indicating the songlist selected while browsing
<b>CURRENT-SONGLIST\$</b>	S	Serial signal indicating the currently running songlist
<b>TRACK-* -FB</b>	D	True feedback indicating which track is currently playing
<b>CURRENT-TRACK-AN</b>	A	Analog signal representing the track number currently playing
<b>TRACK-* \$</b>	S	Serial signals containing the names of the first 32 tracks on the disc
<b>SEARCH-DISC-FB</b>	D	Indicates the module is in the disc search mode. Could be used to turn a sub page on displaying the numeric search keypad
<b>SEARCH-TEXT\$</b>	S	Contains the search string being entered on the computer keyboard for a disc name or artist search
<b>SEARCH-DISC\$</b>	S	Contains the disc name returned by the Tunebase system in response to a search by artist or disc
<b>SEARCH-ARTIST\$</b>	S	Contains the disc artist returned by the Tunebase system in response to a search by artist or disc
<b>CD-AN</b>	A	Analog signal representing the CD number being searched for

<b>CD-TRAY-AN</b>	A	Analog signal representing the Tray being searched for
<b>SEARCH-TRACK-FB</b>	D	Indicates the module is in the track search mode. Could be used to turn a sub page on displaying the numeric search keypad
<b>TRACK-AN</b>	A	Analog signal representing the track number being searched for
<b>SEARCH-TYPE-* -FB</b>	D	Simulated feedback indicating which search type is currently active
<b>ESCIENT-TX\$</b>	S	Serial signal to be routed to a 2-way RS232 port

**OPS USED FOR TESTING:** 5.10.05x

**COMPILER USED FOR TESTING:** SimplWindows Version 1.40.07

**SAMPLE PROGRAM:** TBASTSTC

**REVISION HISTORY:** TBASEF-A - Original  
Escient Tunebase Pro MK-II Full Control -  
Corrected problem with current track  
information not being displayed correctly  
when a new CD was selected.