

SIMPLWINDOWS NAME: Escient Tunebase Pro MK-II Digital Jukebox

CATEGORY: Computer

VERSION: 1.0

SUMMARY: Provides basic control of the Tunebase system

GENERAL NOTES: This module will provide basic 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:

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

Standard transport controls. Note that

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

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

CD-TRAY-AN	A	Analog signal representing the Tray being searched for
SEARCH-TRACK-FB	D	Indicates the module is in the track search mode. Could be used to turn a sub page on displaying the numeric search keypad
TRACK-AN	A	Analog signal representing the track number being searched for
SEARCH-TYPE-* -FB	D	Simulated feedback indicating which search type is currently active
ESCIENT-TX\$	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: TBASTSTD

TBASEB-A - Original
Escient Tunebase Pro MK-II Basic Control

REVISION HISTORY:
- Corrected problem with current track information not being displayed correctly when a new CD was selected.