

**SIMPLWINDOWS  
NAME:**

Escient FireBall+TuneBase 200 Full Control v2

**CATEGORY:**

Transport Decks

**VERSION:**

1.0

**SUMMARY:**

Controls all standard functions on an Escient Fireball or TuneBase 200 system.

**GENERAL NOTES:**

This module will control all of the standard functions on an Escient FireBall or TuneBase 200 system. There are two categories of control available:

1. Album/Track selection by browsing the Escient database using the touch panel to display album/track information, and
2. Controls meant to be used with the Escient on-screen menus, displayed either on a touch panel or an external video/VGA monitor.

To browse for selections using the touch panel, you first must choose a group of selections to browse. These groups are:

- System Music - (System\_Music\_Groups)
- User Music - (User\_Music\_Groups)
- System Radio - (System\_Radio\_Groups)
- User Radio - (User\_Radio\_Groups)

Note that the TunerBase 200 does not support the System Radio and User Radio groups.

After selecting a Group, all of the available genres within that group will be displayed at the Genre\$\_\* text outputs. You can display up to 8 genres at a time. You can scroll between pages of genres using the First/Prev/Next/Last\_Genre inputs. You can select the desired genre using the Select\_Genre\_\* input.

After selecting a Genre, all of the available albums within that genre will be displayed at the Album\$\_\* text outputs. You can display up to 8 albums at a time. You can scroll between pages of albums using the First/Prev/Next/Last\_Album inputs. You can select the desired album using the Select\_Album\_\* input.

After selecting an album, all of the available tracks within that album will be displayed at the Track\$\_\* text outputs. You can display up to 8 tracks at a time. You can scroll between pages of tracks using the First/Prev/Next/Last\_track inputs. You can select the desired track using the Select\_Track\_\* input. As soon as a track is selected, it will be played.

It is also possible to search for an album title after a group and genre have been selected. To search, you must enter the album to search for at the Search\$ input. The signal to attach to this input can be generated by the Full IBM Keyboard module. See the demo program for an example of how to implement this. Pulse the Search\_Enter input to activate the search. If a match is found, the Search\_Found output will pulse for 1 second, and the album selection list will automatically scroll to the search location. If no match is found, the Search\_Failed output will pulse for 1 second.

Parameter fields allow you to specify how many entries

per page you would like to use for Genre, albums, and tracks. These parameters must be set to values between 1d and 8d. An additional parameter field allows you to specify the maximum number of characters to display per field for genres/albums/tracks/etc. This parameter must be set to a value of 50d or less.

True feedback is provided for some functions, including power, play/stop/pause, and guide sort order.

True feedback will also indicate the currently playing Album/Artist/Track/Elapsed Time.

The remainder of the functions are remote keypad emulation commands which should be used with the on-screen menus of the Escient displayed on either a touch panel, or on an external video/VGA monitor. Note that not all functions are valid in all modes of operation.

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

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

**VENDOR FIRMWARE:** 1.2.0.7

**VENDOR SETUP:** You can use any of the three available com ports on the Escient. Whichever port is being used should be set up as follows:

Go to the Setup Menu -> audio, video, and com ports -  
> com port

external control: Com 1, 2, or 3  
touch panel: enable for X-Y (if using Video grid control)

**CABLE NUMBER:** CNSP-124

## CONTROL:

|                                   |   |   |
|-----------------------------------|---|---|
| <b>Power_On/Off/Tog</b>           | D | Pulse to turn power on/off. True feedback will be reflected at the corresponding Power_*_Fb outputs |
| <b>Play/Stop/Pause</b>            | D | Pulse to change the transport mode. True feedback is provided                                       |
| <b>Track_Previous/Next</b>        | D | Pulse to go to the next or previous track   |
| <b>Record</b>                     | D | Pulse to activate record mode   |
| <b>System_Music_Groups</b>        | D | Pulse to select system music for browsing   |
| <b>User_Music_Groups</b>          | D | Pulse to select user music for browsing   |
| <b>System_Radio_Groups</b>        | D | Pulse to select system radio for browsing. Available on the FireBall only                           |
| <b>User_Radio_Groups</b>          | D | Pulse to select user radio for browsing. Available on the FireBall only                             |
| <b>Genre_First/Prev/Next/Last</b> | D | Pulse to scroll between pages of genres   |
| <b>Genre_Select_1-8</b>           | D | Pulse to select a genre for browsing  |
| <b>Album_First/Prev/Next/Last</b> | D | Pulse to scroll between pages of albums   |
| <b>Album_Select_1-8</b>           | D | Pulse to select an album  |

|                                   |   |   |
|-----------------------------------|---|---|
| <b>Track_First/Prev/Next/Last</b> | D | Pulse to scroll between pages of tracks   |
| <b>Track_Select_1-8</b>           | D | Pulse to select a track to be played  |
| <b>Guide_View_*</b>               | D | Pulse to change the guide view in the on-screen menus   |
| <b>Menu_*</b>                     | D | Emulates remote/keyboard functions on the Escient system  |
| <b>Search\$</b>                   | S | Used to specify a search string to be used for album searching  |
| <b>Search_Enter</b>               | D | Pulse to perform a search for the album specified in the Search\$ input   |
| <b>Feedback_On/Off</b>            | D | Pulse to turn feedback from the Escient on or off. By default, feedback is on, so there should be no need to use these inputs |
| <b>From_Device\$</b>              | S | Serial signal to be routed from a 2-way RS232 port  |

## FEEDBACK:

|                               |   |   |
|-------------------------------|---|---|
| <b>Power_On/Off_Fb</b>        | D | True feedback indicating the state of power                   |
| <b>Play/Stop/Pause_Fb</b>     | D | True feedback indicating the transport state                  |
| <b>Current_Track_Number\$</b> | S | Indicates the currently playing track number                  |
| <b>Current_Artist\$</b>       | S | Indicates the artist of the currently playing selection       |
| <b>Current_Title\$</b>        | S | Indicates the album title of the currently playing selection  |
| <b>Current_Track\$</b>        | S | Indicates the track of the currently playing selection        |
| <b>Current_Time\$</b>         | S | Indicates the elapsed time of the currently playing selection |
| <b>*_Groups_Fb</b>            | D | Indicates which group has been selected for browsing          |
| <b>Genre_1-8\$</b>            | S | Names of the genres for the current page                      |
| <b>Album_1-8\$</b>            | S | Names of the albums for the current page                      |
| <b>Track_1-8\$</b>            | S | Names of the tracks for the current page                      |
| <b>Guide_View_*_Fb</b>        | D | Indicates the sort order of the guide in the on-screen menus  |
| <b>Search_Found</b>           | D | Pulses if a search match is found                             |
| <b>Search_Failed</b>          | D | Pulses if a search match is not found                         |
| <b>To_Device\$</b>            | S | Serial signal to be routed to a 2-way RS232 port              |

**OPS USED FOR TESTING:** 5.12.63x.UPZ

**COMPILER USED FOR TESTING:** SimplWindows Ver 2.00.28

**SAMPLE PROGRAM:** Escient FireBall Demo Program  
Escient TuneBase 200 Demo Program

v2 - Changed SPlus line 249 to correct string overflow  
- Added Guide View Covers Feedback  
- Corrected track displays so as not to

**REVISION HISTORY:**

- scroll beyond the last track in an album
- Automatically play internet radion stations when selected
- Extended search timer to 30 seconds before quitting search