Partner: Biamp
Model: Tesira
Device Type: Digital Signal Processor

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Biamp Tesira Passthru v1.7
CATEGORY:	Mixer
VERSION:	1.7
SUMMARY:	This module allows a user to insert commands for functions that are not included as part of other modules designed for the Biamp Tesira Server and Forte.
GENERAL NOTES:	This module was created to allow the programmer a method of controlling or monitoring functions which are not included as part of other existing control modules while still allowing the Biamp Tesira Command Processor module to operate properly. If control of unsupported functions is desired, this module should always be used. Inserting commands directly on the "To_Device" serial output of the Biamp Tesira Command Processor module will cause improper operation of the modules. This module's input strings need to be formatted correctly as indicated in the Tesira control protocol in order to control the object that you wish to control. So understanding what your object requires is important to the serial inputs of this module. This module is designed to receive commands from Serial I/O or Send symbols. Feedback from the device can be processed in whatever fashion that the programmer deems suitable for their needs. ***The following maybe optional***. **Poll_Msg_In**: This input will handle serial strings for poll messages to the Biamp Tesira. Poll messages include serial strings that use the **get**, **subscribe** or **unsubscribe** command functions. **Command_Msg_In**: This input will handle serial strings for command messages to the Biamp Tesira. Command messages include serial strings that use the **set** command function. When using subscribe or unsubscribe commands, note that the unique identifier for the subscribed function must be enclosed in square brackets inside of double quotes. The module uses these characters to identify the location of the unique identifier and format it properly to work with the Biamp Tesira Command Processor. Responses for unsolicited messages for subscribed functions will be returned on the "Subscribed_Msg_Out" output. Unlike other Tesira modules, this module will NOT automatically try to figure out what type of Biamp Tesira control object you are attempting to control. It is the responsibility of the programmer to determine what functions are needed and how the commands should be properly structured.
CRESTRON HARDWARE REQUIRED:	N/A
SETUP OF CRESTRON HARDWARE:	This module requires the Biamp Tesira Command Processor IP v1.7 or the Biamp Tesira Command Processor v1.7 modules in order to operate. Please read the help files associated with these modules for Crestron Hardware Setup.
VENDOR FIRMWARE:	Tesira Server - 2.4.1.2 Tesira Forte – 2.4.1.2

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CONTROL:

Poll_Msg_In	S	This input will handle serial strings for poll messages to the Biamp Tesira. Poll messages include serial strings that use the **get**, **subscribe** or **unsubscribe** command functions. When using subscribe or unsubscribe commands, note that the unique identifier for the subscribed function must be enclosed in square brackets inside of double quotes. The module uses these characters to identify the location of the unique identifier and format it properly to work with the Biamp Tesira Command Processor. *Example – to subscribe to the status of Output Mute on the output of "Source Selector 12 Channel" in the demo system, the following string format should be used:* *SourceSelector1 subscribe outputMute \x22[SSOutMute]\x22\x0A* *Where the unique identifier in this case is SSOutMute.*
Command_Msg_In	S	This input will handle serial strings for command messages to the Biamp Tesira. Command messages include serial strings that use the **set** command function. *Example – to set to the status of Output Mute to ON for the output of "Source Selector 12 Channel" in the demo system, the following string format should be used:* *SourceSelector1 set outputMute 1\x0A*
From_Processor	S	Serial data signal to be routed from one of the To_Module_* outputs on the Biamp Tesira Command Processor IP v1.7 or the Biamp Tesira Command Processor v1.7 modules.

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FEEDBACK:

Is_Initialized	D	Signal is high to indicate the module has successfully received a response from its initializing queries.
Subscribed_Msg_Out	S	This output will pass serial strings from the device for unsolicited messages that are a result of subscribed functions.
Response_Msg_Out	S	This output will pass serial strings from the device in response to any set, get, subscribe or unsubscribe commands that are sent from this module.
To_Processor	S	Serial data signal to be sent to the From_Modules input on the Biamp Tesira Command Processor IP v1.7 or the Biamp Tesira Command Processor v1.7 modules.

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TESTING:

OPS USED FOR TESTING:	PRO2: 4.008.0026 CP3: 1.012.0017
SIMPL WINDOWS USED FOR TESTING:	4.03.20
CRES DB USED FOR TESTING:	54.00.011.00
DEVICE DATABASE:	71.00.003.00
SYMBOL LIBRARY USED FOR TESTING:	978
SAMPLE PROGRAM:	Biamp Tesira IP v1.7 Demo CP3 Biamp Tesira IP v1.7 Demo PRO2 Biamp Tesira v1.7 Demo CP3 Biamp Tesira v1.7 Demo PRO2
REVISION HISTORY:	v1.3 – Initial Release v1.4 – No revision performed. v1.5 – No revision performed. v1.6 – No revision performed. v1.7 – No revision performed.

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