

Partner: Beyerdynamic
Model: Stegos
Device Type: Audio Mixer

**GENERAL INFORMATION:**

SIMPLWINDOWS NAME:	"Beyerdynamic Stegos v1.0.umc"
CATEGORY:	Mixer
VERSION:	V1.0
SUMMARY:	This module controls all the standard functions of a Beyerdynamic Stegos.
GENERAL NOTES:	This module controls all the standard functions of a Beyerdynamic Stegos. The module offers control over the volume level, mute function, RF channels and the RF band. Feedback is provided for the channel and battery status.
CRESTRON HARDWARE REQUIRED:	2-series processor with an Ethernet interface.
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 57600 Baud Parity: no parity Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	V1.0
VENDOR SETUP:	Connect the serial interface on the stegos with the Crestron control system.
CABLE DIAGRAM:	Crossed serial cable (DB9)

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CONTROL:

Poll_Channel_Status	D	Pulse to poll the status of all channels. The activity, usage, synchronization and allocation id information will be updated.
Channelx_Set_To_Active	D	Pulse to activate channel x. Range x: 1-4.
Channelx_Set_To_Inactive	D	Pulse to set channel x to inactive. Range x: 1-4.
Channelx_Toggle_Active-Inactive	D	Pulse to toggle between the active and inactive state of channel x. Range x: 1-4.
Poll_Mute_Status	D	Pulse to poll the mute status of all channels.
Channelx_Mute	D	Pulse to mute channel x. Range x: 1-4.
Channelx_UnMute	D	Pulse to unmute channel x. Range x: 1-4.
Channelx_Toggle_Mute_Status	D	Pulse to toggle the mute status of channel x. Range x: 1-4.
Global_Mute	D	Pulse to mute global.
Global_UnMute	D	Pulse to unmute global.
Global_Toggle_Mute_Status	D	Pulse to toggle the global mute state.
Poll_Volume_Status	D	Pulse to poll the volume status for all channels.
Channelx_Volume_Up	D	Pulse to raise the volume of channel x. Range x: 1-4.
Channelx_Volume_Down	D	Pulse to lower the volume of channel x. Range x: 1-4.
Channelx_Change_Volume	A	Analog Input to allow volume preset values for channel x. Range x: 1-4.
Master_Volume_Up	D	Pulse to raise the master volume.
Master_Volume_Down	D	Pulse to lower the master volume.
Master_Change_Volume	D	Analog Input to allow preset values for the master volume.
Poll_Battery_Status	D	Pulse to poll the battery status of all channels.
Refresh_Allocation_Table	D	Pulse to refresh the allocation table.
Power_Off_Stegos_Microphones	D	Pulse to power off all the microphones that are connected with the stegos.
Poll_RF_Band	D	Pulse to poll for the selected RF band.

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Change_RF_Band_To_High	D	Pulse to change the RF band selection to high.
Change_RF_Band_To_Mid	D	Pulse to change the RF band selection to mid.
Change_RF_Band_To_Low	D	Pulse to change the RF band selection to low.
FromDevice	S	Serial string data received from the device on its serial connection.

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FEEDBACK:

Channelx_Is_Active	D	High to indicate that channel x is activated. Range x: 1-4.
Channelx_Is_Not_Active	D	High to indicate that channel x is not activated. Range x: 1-4.
Channelx_Is_Used	D	High to indicate that channel x is used. Range x: 1-4.
Channelx_Is_Free	D	High to indicate that channel x is free. Range x: 1-4.
Channelx_Is_In_Sync	D	High to indicate that channel x is synchronized. Range x: 1-4.
Channelx_Is_Unsynced	D	High to indicate that channel x is not synchronized. Range x: 1-4.
Channelx_Allocated_MU_ID	S	Serial signal that outputs the id of the allocated microphone on channel x. Range x: 1-4.
Channelx_Is_Muted	D	High to indicate that channel x is muted. Range x: 1-4.
Channelx_Is_Not_Muted	D	High to indicate that channel x is not muted. Range x: 1-4.
Global_Is_Muted	D	High to indicate that global mute is activated.
Global_Is_Not_Muted	D	High to indicate that global mute is not activated.
Channelx_Volume_Analog	A	Analog signal indicating the current volume level of channel x. Range x: 1-4.
Master_Volume_Analog	A	Analog signal indicating the current master volume level.
Channelx_Battery_Is_Trickle_Charging	D	High to indicate that the battery of the microphone connected on channel x is trickle charging. Range x: 1-4.
Channelx_Battery_Is_Fast_Charging	D	High to indicate that the battery of the microphone connected on channel x is fast charging. Range x: 1-4.
Channelx_Battery_Is_Not_Charging	D	High to indicate that the battery of the microphone connected on channel x is not charging. Range x: 1-4.
Channelx_Battery_Error	D	High to indicate that the battery of the microphone connected on channel x is in an error state. Range x: 1-4.
Channelx_Battery_Level_Analog	A	Analog signal indicating the current battery level of the microphone connected on channel x. Range x: 1-4.
RF_Band_High_Is_Selected	D	High to indicate that the high RF band is selected.
RF_Band_Mid_Is_Selected	D	High to indicate that the middle RF band is selected.

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RF_Band_Low_Is_Selected	D	High to indicate that the low RF band is selected.
ToDevice	S	Serial string data send to the device on its serial connection.

TESTING:

OPS USED FOR TESTING:	V4.003.0015
SIMPL WINDOWS USED FOR TESTING:	V3.01.37
CRESTRON DB USED FOR TESTING:	V26.00.008.00
DEVICE DB USED FOR TESTING:	V34.00.012.00
SAMPLE PROGRAM:	"Beyerdynamic Stegos v1.0 PRO2 Demo.smw"
REVISION HISTORY:	V1.0