

dbx: SC 32/64 Output Mono-Mixer

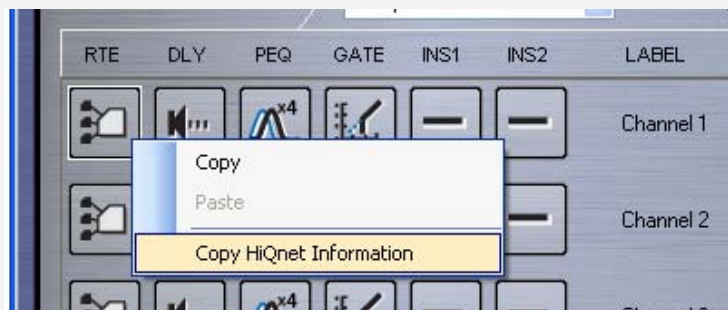
This module provides functionality for an Output Mono-Mixer.



GENERAL INFORMATION

SIMPLWINDOWS NAME:	dbx SC32-64 Output Mono-Mixer.umc
CATEGORY:	Device Interface
VERSION:	v1.0
SUMMARY:	This module provides functionality for a single Output Mono-Mixer. This module MUST connect to a "dbx SC32-64 NODE.umc". DO NOT CONNECT DIRECTLY TO A COMM PORT.
GENERAL NOTES:	This module was written by the Manufacturer.

This module is meant for a single dbx SC32/64 Output Mono-Mixer. Use a different instance for each SC 32/64 Output Mono-Mixer being controlled. The user must select the VD and ObjectID via the parameter drop-down list. This address information can be obtained by right-clicking on the desired object and selecting "Copy HiQnet Information".



Name(type of object): Router
Node: (Hex):0x01, (Decimal):1
VD: (Hex):0x01, (Decimal):1
ObjectID: (Hex):0x010100, (Decimal):1.1.0

Extensive debug capabilities have been built into this module. To access additional information concerning errors, messages types/values, module status, and basic trouble shooting information the programmer can uncomment the #DEFINE statements in the Simpl+ code. NOTE: debugging info takes processor resources. Comment out the #DEFINE for final release to ensure optimum performance.

The SC is user configurable and thus the programmer can determine how much traffic and how much control is exchanged between the Crestron and the SC by using external sub-modules such as "dbx SC32-64 Output Mono-Mixer.umc" available in the module download package. To utilize additional modules the programmer must expand the "From_NODE_Module" and "To_NODE_Module" signals. ONLY 1 sub-module can be tied to each signal on the NODE. See sample image on last page of this document.

CONTROL:

Device_Ready	D	After communication has been established to the SC, the NODE will assert this signal allowing all sub-modules to send and receive data from the SC. This signal must be connected to the NODE module's "Device_Ready" signal output for proper functionality. No messages will be sent from this module unless this signal is HIGH.
Subscribe	D	<p>This signal is intended to be HIGH for all typical system usages. It must be HIGH to receive true feedback from the SC. If it is low, the feedback is simulated.</p> <p>When this signal transitions from low to high 'subscribe' messages will be sent to the SC which will allow automatic updates to be received (no polling). When this signal transitions from high to low 'unsubscribe' messages will be sent to the SC and automatic updates will not be received any longer.</p> <p>It is strongly suggested that the programmer connect this input to the same signal as defined on the DEVICE_READY input. This will ensure that this module stays in sync during connection interruptions. See last page of this document for proper connections.</p>
Discrete_Volume_Enable	D	<p>This signal is intended to be LOW for most applications. If the "Subscribe" line is high the Crestron module will be kept in sync automatically.</p> <p>If this signal is HIGH a "GET" message will follow all volume "SET" commands. This is only for user's who want a full response for every single volume command. NOTE: This can cause high traffic/processor loads.</p>
Master_Mute	D	When this signal transitions low-to-high a "Mute" message will be sent to the SC. When the signal transitions from high-to-low an "UnMute" message will be sent to the SC.
Input_Mute_[x]_Enable	D	<p>Array of digital inputs. Expand this array to expose the necessary signals.</p> <p>When this signal transitions low-to-high a "Mute" message will be sent to the SC. When the signal transitions from high-to-low an "UnMute" message will be sent to the SC.</p>
Master_Volume	A	Accepts values of 0-65535 so that this signal input can be connected directly to a Analog_Ramp. This module is designed so that the SAME SIGNAL name that is defined on the Master_Volume_In input can be defined on the Master_Volume_FB in order to avoid logic buffering when using an Analog_Ramp.
From_NODE_Module	S	<p>Connect the "To_IO_Module" signal from the dbx NODE module to this input. Data received from the device will be sent to this module via the NODE. DO NOT CONNECT DIRECTLY TO A COMM PORT.</p> <p>IMPORTANT: Only 1 module may be connected to each "From_NODE_Module" input. If more than 1 module is connected the modules WILL NOT FUNCTION properly. See example screenshot on the last page of this document for proper connection.</p>

InputSource_FB[x]

A

Array of analog outputs. Expand as necessary. Will reflect the current state of the InputSource[x] channel.

Will reflect the current state of the Source of the channel. If "subscribe" is HIGH the feedback will be true. If "subscribe" is LOW the feedback will be pseudo. Normally this signal is sent to an Analog Equate for true feedback purposes. See example program.

Parameters:**VD\$**

The user must select the VD\$ and ObjectID\$ via the parameter drop-down list. This address information can be obtained by right-clicking on the desired object and selecting "Copy HiQnet Information". See GENERAL NOTES at top of this document for more information.

NOTE: A valid correlation must be met between the selected VD\$ and ObjectID\$ parameters. If this is not met this module **will not function**. A constant "Configuration Mismatch" Error will be displayed in the Crestron console and Simpl Debugger until this condition has been resolved. An SC processor need not be present for this condition to be detected.

ObjectID\$

The user must select the VD\$ and ObjectID\$ via the parameter drop-down list. This address information can be obtained by right-clicking on the desired object and selecting "Copy HiQnet Information". See GENERAL NOTES at top of this document for more information.

NOTE: A valid correlation must be met between the selected VD\$ and ObjectID\$ parameters. If this is not met this module **will not function**. A constant "Configuration Mismatch" Error will be displayed in the Crestron console and Simpl Debugger until this condition has been resolved. An SC processor need not be present for this condition to be detected.

Sample Screen shot of NODE module and Input Router sub-module defined properly.

Online Support

Detail View

S-2 : dbx SC32/64 Node

dbx SC32/64 Node		
NodeAddress	1d	
ConnectionType	TCP/IP	
TCP_Connect_FB	Connect /ice_Ready	SC_DeviceReady
tpLocate	Locate	
aiVenue_Preset	Venue_Preset	
aiDevice_Preset	Device_Pre _Preset_FB	Device_Preset_FB
COMM_RX\$	RX\$ TX\$	COMM_TX\$
From_Modules1	From_Modul Module\$[1]	To_modules1
From_Modules2	From_Modul Module\$[2]	To_modules2
From_Modules3	From_Modul Module\$[3]	To_modules3
From_Modules4	From_Modul Module\$[4]	To_modules4
From_Modules5	From_Modul Module\$[5]	To_modules5
From_Modules6	From_Modul Module\$[6]	To_modules6
From_Modules7	From_Modul Module\$[7]	To_modules7
From_Modules8	From_Modul Module\$[8]	To_modules8
From_Modules9	From_Modul Module\$[9]	To_modules9
From_Modules10	From_Modul module\$[10]	To_modules10
[Reference Name]		

S-5.1 : Input Router A1 Chan1 : dbx SC32/64 Input...

dbx SC32/64 Input ...		
VD\$	1d	
ObjectID\$	1.1.0	
SC_DeviceReady	Device_Ready	
del_SC_DeviceReady	Subscribe	
//S-5.1_DiscreteVolu...	DiscreteVolumeFB	
tpRouterA1_Chan1_...	Mute_ON Mute_FB	InputRouter_A1_Cha...
tpRouterA1_Chan1_...	Mute_OFF	
tpRouterA1_Chan1_...	Mute_Toggle	
InputRouter_A1_Cha...	Source Source_FB	InputRouter_A1_Cha...
InputRouter_CardA_...	ENUM_Source	
InputRouter_A1_Cha...	Volume /olume_FB	InputRouter_A1_Cha...
To_modules1	From_NOC E_Module\$	From_Modules1
[Reference Name]		

OPS USED FOR TESTING:

Firmware: PRO2 4.001.1012

COMPILER USED FOR TESTING:

V2.12.18; Simpl+ 3.03.11

SAMPLE PROGRAM:

dbx SC32-64 Demo Program.smw and dbx SC32-64 TPMC-12 Demo Panel.vtp

REVISION HISTORY:

V. 1.0 – Creation by Manufacturer (S.E.)