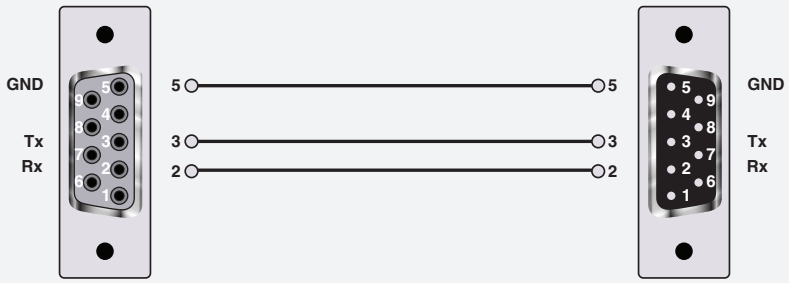
External Control Protocol Addendum: SymNet Crestron Modules

General Notes:

These modules are made to work over the entire SymLink bus connected to any unit in the ring.

Symetrix SymNet Crestron Modules General Information.	
Module Name:	Symetrix SymNet.
Category:	Mixer/Digital Signal Processor.
Summary:	These modules are designed to control the Symetrix SymNet series of digital signal processors.
Notes:	When the system starts, each module polls the connected SymNet hardware for the controller number defined. These modules are designed to work over the entire SymNet bus, only one serial connection is necessary per ring. These modules will auto connect in system builder with the proper communications settings.
Supported Hardware:	All 2-series and X Series Processors.
Supported Software:	Simpl Windows, System Builder.
Hardware Setup:	38400, 8, N, 1 – SW Handshake = Off.
Cable:	DB9F to DB9M, straight through.
Programming and Testing	
Hardware:	QM-RMC, Pro2, CNMSX-Pro, TPMC-8X.
Software:	Simpl Windows 2.08.41 & System Builder 3.3.15, DB-18.8.8, LIB-487.



Symetrix SymNet Preset Recall Used to directly recall presets in SymNet, No feedback available.	
FUNCTION	**DESCRIPTION**
Inputs	
Preset_# connect	Drive with Analog initialize with decimal values. Use the number of the preset you wish to recall. Added for System Builder control of UDP connection. Leave high to keep connection open, low to disconnect.
Outputs	
device_tx$	Route to TX$ of UDP communications device.
enable	Route to "Enable" on UDP communications device.
Parameters	
Port	Port used for communicating with SymNet over UDP, not editable.

Symetrix SymNet Volume Control Used to control a channel with typical volume and mute functions.	
Inputs	
Volume_Up	Pulse or hold high to raise volume.
Volume_Down	Pulse or hold high to lower volume.
Slider_Input	Route from slider on touch panel if desired.
Mute_On	Pulse to turn mute “On”.
Mute_Off	Pulse to turn mute “Off”.
Mute_Toggle	Pulse to toggle between Mute “On” and “Off”.
connect	Leave high to keep connection open, low to disconnect. Added for System Builder control of UDP connection.
device_rx$	Route from RX$ of UDP communications device.
Outputs	
Volume_Bar	Current volume in %, route to volume bar, percent, or slider.
Volume_dB$	Current volume in dB. Route to indirect text field if desired.
Mute_On_Fb	Stays high while mute is “On”.
Mute_Off_Fb	Stays high while mute is “Off”.
Mute_Fb	Oscillates when Mute is “On”.
enable	Route to “Enable” on UDP communications device.
device_tx$	Route to TX$ of UDP communications device.
Parameters	
Controller Number	Use 5 digits to define the controller number set up in SymNet Designer (ex: 42 = 00042).
Ramp Time	Use this to set the ramp time fro 0 to 100%.
Slider Ramp Time	Use this to set the response of the Slider. 0s will give you real time changes, greater values will have a ramp effect.
Fader Type	Use drop down menu to select the type of fader you are controlling: VCA, Typical, or Input/Output.
Mute Controller Number	Use 5 digits to define the controller number set up for mute in SymNet Designer.
Port	Port used for communicating with SymNet over UDP, not editable.

Symetrix SymNet Fader Control Used to control any control in SymNet that uses a range ex: Fader, EQ, etc... Can be used in conjuction with the scaler module in SymNet for infinite possibilities.	
FUNCTION	**DESCRIPTION**
Inputs	
Fader_Up	Pulse or hold high to raise fader.
Fader_Down	Pulse or hold high to lower fader.
Slider_Input	Route from slider on touch panel if desired.
connect	Leave high to keep connection open, low to disconnect. Added for System Builder control of UDP connection.
device_rx$	Route from RX$ of UDP communications device.
Outputs	
Volume_Bar	Current volume in %, route to volume bar, percent, or slider.
Volume_dB$	Current volume in dB. Route to indirect text field if desired.
enable	Route to “Enable” on UDP communications device.
device_tx$	Route to TX$ of UDP communications device.

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Symetrix SymNet Fader Control (continued)	
FUNCTION	**DESCRIPTION**
Parameters	
Controller Number	Use 5 digits to define the controller number set up in SymNet Designer (ex: 42 = 00042).
Ramp Time	Use this to set the ramp time fro 0 to 100%.
Slider Ramp Time	Use this to set the response of the Slider. 0s will give you real time changes, greater values will have a ramp effect.
Fader Type	Use drop down menu to select the type of fader you are controlling: VCA, Typical, or Input/Output.
Port	Port used for communicating with SymNet over UDP, not editable.

Symetrix SymNet Button Control Controls any function in symnet that has only 2 states (on/off, connect/disconnect, enable/disable, mute/unmute)	
Inputs	
Button_On_Fb	Stays high while Button is “On”.
Button_Off_Fb	Stays high while Button is “Off”.
Button_Fb	Oscillates when Button is “On”.
connect	Leave high to keep connection open, low to disconnect. Added for System Builder control of UDP connection.
device_rx$	Route from RX$ of UDP communications device.
Outputs	
Button_On_Fb	Stays high while Button is “On”.
Button_Off_Fb	Stays high while Button is “Off”.
Button_Fb	Oscillates when Button is “On”.
enable	Route to “Enable” on UDP communications device.
device_tx$	Route to TX$ of UDP communications device.
Parameters	
Controller Number	Use 5 digits to define the controller number set up in SymNet Designer (ex: 42 = 00042).
Port	Port used for communicating with SymNet over UDP, not editable.

Symetrix SymNet Switch Selector Used to control any input selector module in SymNet	
FUNCTION	**DESCRIPTION**
Inputs	
Input	Use Analog Initialize to select input, use decimal values with value of input desired.
connect	Leave high to keep connection open, low to disconnect. Added for System Builder control of UDP connection.
device_rx$	Route from RX$ of UDP communications device.
Outputs	
Input_Fb	Real feedback of current selected Input.
enable	Route to “Enable” on UDP communications device.
device_tx$	Route to TX$ of UDP communications device.
Parameters	
Controller Number	Use 5 digits to define the controller number set up in SymNet Designer (ex: 42 = 00042).
Number Of Inputs	Use drop down menu to select to total number of inputs in the SymNet module.
Port	Port used for communicating with SymNet over UDP, not editable.

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