



Crestron modules for tvONE CORIOmatrix

Integration Guide

1 – Summary

This document will assist Crestron programmers and installers with the integration of these modules into their program.

The modules were designed to control the CORIOmatrix.

2 – Resources and Assumptions

2.1 – Supported Systems

The modules have been designed for Crestron Series-2 and Series-3 processors with Ethernet capability. An X-Panel layout is provided. This panel is not intended for end users, but is provided so that all features of the modules can be demonstrated and exercised.

2.2 – Software and Firmware

This modules were developed using the following firmware and software versions. Ensure you are using the same version or newer.

- CORIOmax Firmware - V1.300B34.P4 Scaling Matrix
- Crestron Series 2 Processor Firmware – 4.003.0015
- Simpl Windows – 4.02.08
- Simpl+ - 4.02.07
- Simpl+ Cross Compiler – 1.3
- Vision Tools Pro-e – 5.1.19

2.3 – Assumptions

It is assumed that you already have a good understanding of Crestron Programming and Integration. Knowledge of TCP/IP networking would also be beneficial.

It is assumed that the CORIOmatrix is installed and functioning correctly, is on the same LAN as the Crestron processor, and is configured with required Presets and Macros.

3 – Crestron Modules

3.1 – Module Format

The modules have been provided as Simpl+ modules (.usp and .ush) embedded in a Simpl Windows module (.umc). A demo file has also been provided in .smw format to allow for easy copy and paste integration into your project.

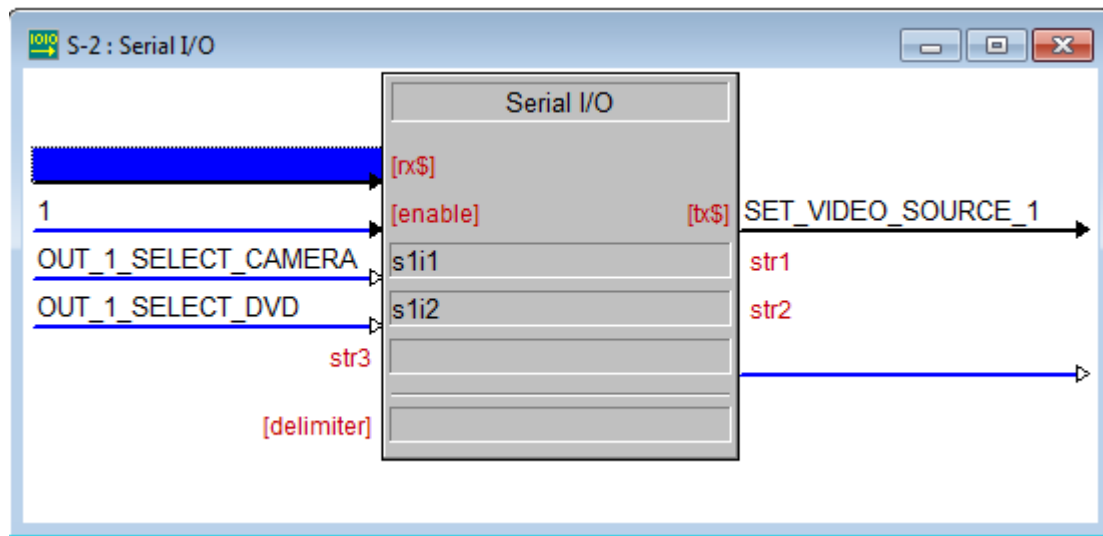
A touch panel file has been provided for X-Panels. This is purely for demonstration / evaluation of the modules, and is not intended for direct integration into your project.

3.2 – Features

- Preset Recall
- Audio/Video Matrix Switching

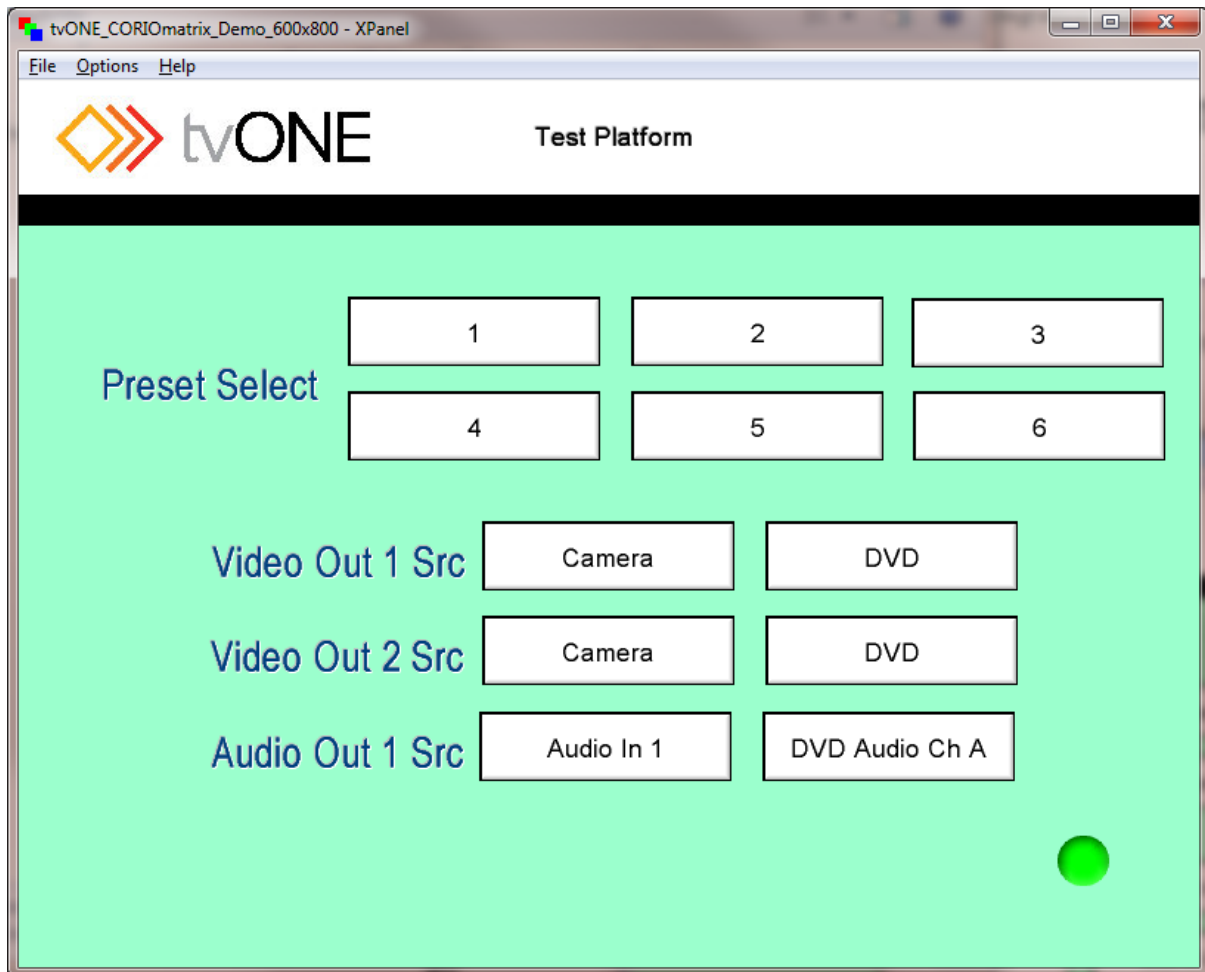
3.3 – Using the modules in your program

This example shows how to use a Serial I/O logic symbol to pass commands to the module in order to select the video input slot to be switched to a video output slot.



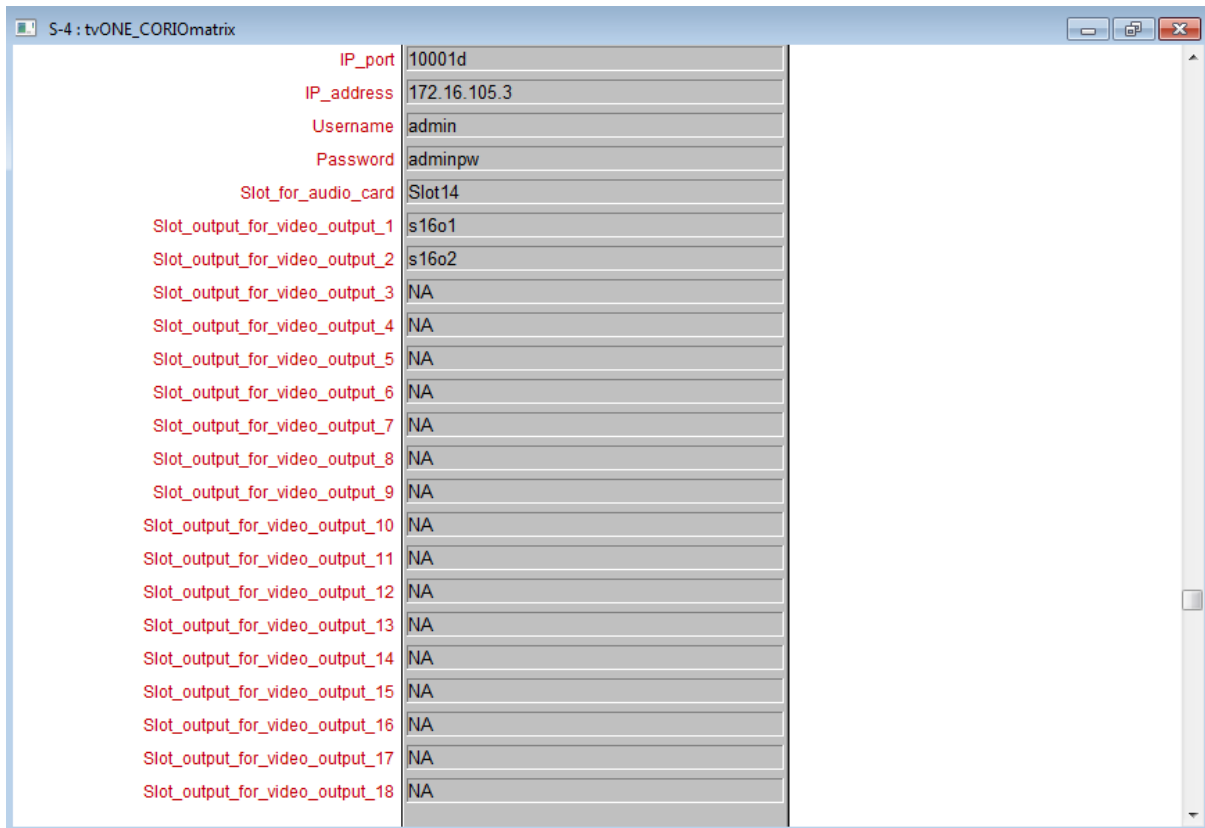
3.4 – Testing the modules using the supplied test harness

The supplied test harness, including an X-Panel file, may be used to test the modules.



4 – Module Arguments

4.1 – Parameters



The screenshot shows a window titled "S-4 : tvONE_CORIOmatrix" with a list of configuration parameters and their values. The parameters are listed on the left, and their corresponding values are in the adjacent column.

Parameter	Value
IP_port	10001d
IP_address	172.16.105.3
Username	admin
Password	adminpw
Slot_for_audio_card	Slot14
Slot_output_for_video_output_1	s16o1
Slot_output_for_video_output_2	s16o2
Slot_output_for_video_output_3	NA
Slot_output_for_video_output_4	NA
Slot_output_for_video_output_5	NA
Slot_output_for_video_output_6	NA
Slot_output_for_video_output_7	NA
Slot_output_for_video_output_8	NA
Slot_output_for_video_output_9	NA
Slot_output_for_video_output_10	NA
Slot_output_for_video_output_11	NA
Slot_output_for_video_output_12	NA
Slot_output_for_video_output_13	NA
Slot_output_for_video_output_14	NA
Slot_output_for_video_output_15	NA
Slot_output_for_video_output_16	NA
Slot_output_for_video_output_17	NA
Slot_output_for_video_output_18	NA

IP_port

Which IP port to use when opening a control connection to the CORIOmatrix.

Default: 10001

IP_address

Which IP address to use when opening a control connection to the CORIOmatrix.

Default: 192.168.2.100

Username

CORIOmatrix username

Default: admin

Password

CORIOmatrix password

Default: adminpw

Slot_for_audio_card

If using an audio card, enter the slot number.

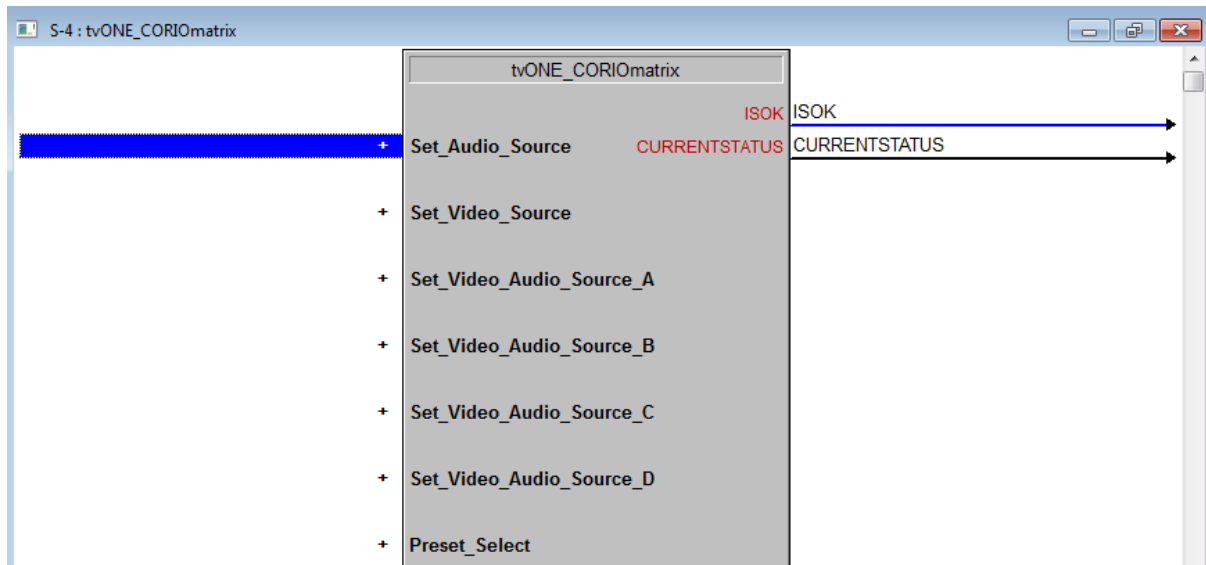
Example: *Slot14*

Slot_output_for_video_output_1 to Slot_output_for_video_output_24

Enter the slot number and output number to be used for video output 1.

Example: *s16o1* = slot 16, output 1.

4.1.2 – Input types



STRING_INPUT SET_AUDIO_SOURCE_1 to SET_AUDIO_SOURCE_8
Set the audio source of an audio output on an audio output card.

STRING_INPUT SET_VIDEO_SOURCE_1 to SET_VIDEO_SOURCE_24
Set the video source of a video output.

STRING_INPUT SET_VIDEO_AUDIO_SOURCE_A_1 to SET_VIDEO_AUDIO_SOURCE_A_24
Set the audio source of audio output A on a video output card.

STRING_INPUT SET_VIDEO_AUDIO_SOURCE_B_1 to SET_VIDEO_AUDIO_SOURCE_B_24
Set the audio source of audio output B on a video output card.

STRING_INPUT SET_VIDEO_AUDIO_SOURCE_C_1 to SET_VIDEO_AUDIO_SOURCE_C_24
Set the audio source of audio output C on a video output card.

STRING_INPUT SET_VIDEO_AUDIO_SOURCE_D_1 to SET_VIDEO_AUDIO_SOURCE_D_24
Set the audio source of audio output D on a video output card.

DIGITAL_INPUT PRESET_SELECT_1 to PRESET_SELECT_50
Select a preset.

5 – Troubleshooting and tips

5.1 – No Connection

Check the IP_Address, IP_Port, Username and Password fields are all correctly entered in the module properties.

Ensure the CORIOmatrix is connected to the same LAN as the Crestron processor.

The CORIOmatrix allows only one TCP/IP connection at a time. Ensure no other applications are currently connected.