

# INTRODUCTION

## Crestron® driver for Midra™ 4K series

V1.2.0

*Developed by*

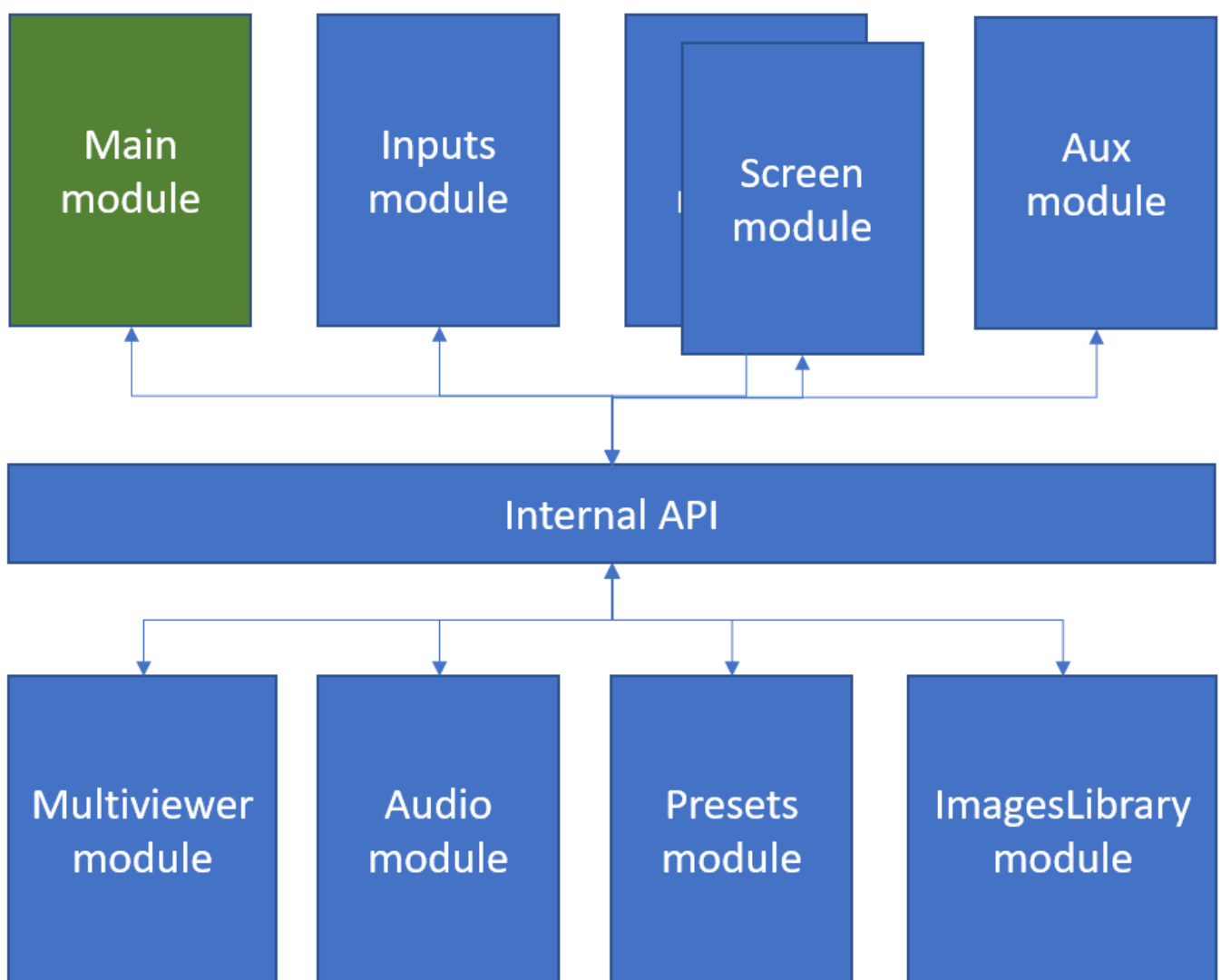


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*Pioneer in Analog, Leader in Digital*

## Description

The **Crestron driver for the Midra™ 4K** series allows developers to remotely control the standard features of a Midra™ 4K live presentation switcher from any Crestron 3-Series or Crestron 4-Series control system. The driver provides several functional modules (**Main** module is required; the others are optional) that can be combined according to your needs. You can load the example provided to see how they are structured/built.

## Driver Modularity



## Package content

The package contains the following components:

- The modular Crestron driver for the Midra™ 4K series (for 3-series Crestron processors)
- The modular Crestron driver for the Midra™ 4K series (for 4-series Crestron processors)
- A SIMPL+® example program that demonstrates the different features supported by the driver
- A XPanel project running with the SIMPL+® sample program provided
- Help files in English

## Key features

- Recall Screen memories, AUX memories, Master memories or Multiviewer memories
- Display live sources with dynamic snapshots and properties
- Change the background set of a Screen
- Change the source displayed in a layer of a Screen
- Change the still image displayed in the foreground layer of a Screen
- Change the source displayed by the Auxiliary output
- Transition (TAKE) the Preview content to the Program (Screen and AUX)
- Configure multiviewer output(s) widget sources
- Route de-embedded audio channels or Dante input audio channels to the video outputs or to the Dante output audio channels
- Control device (reboot, shutdown or wakeup)

## Requirements

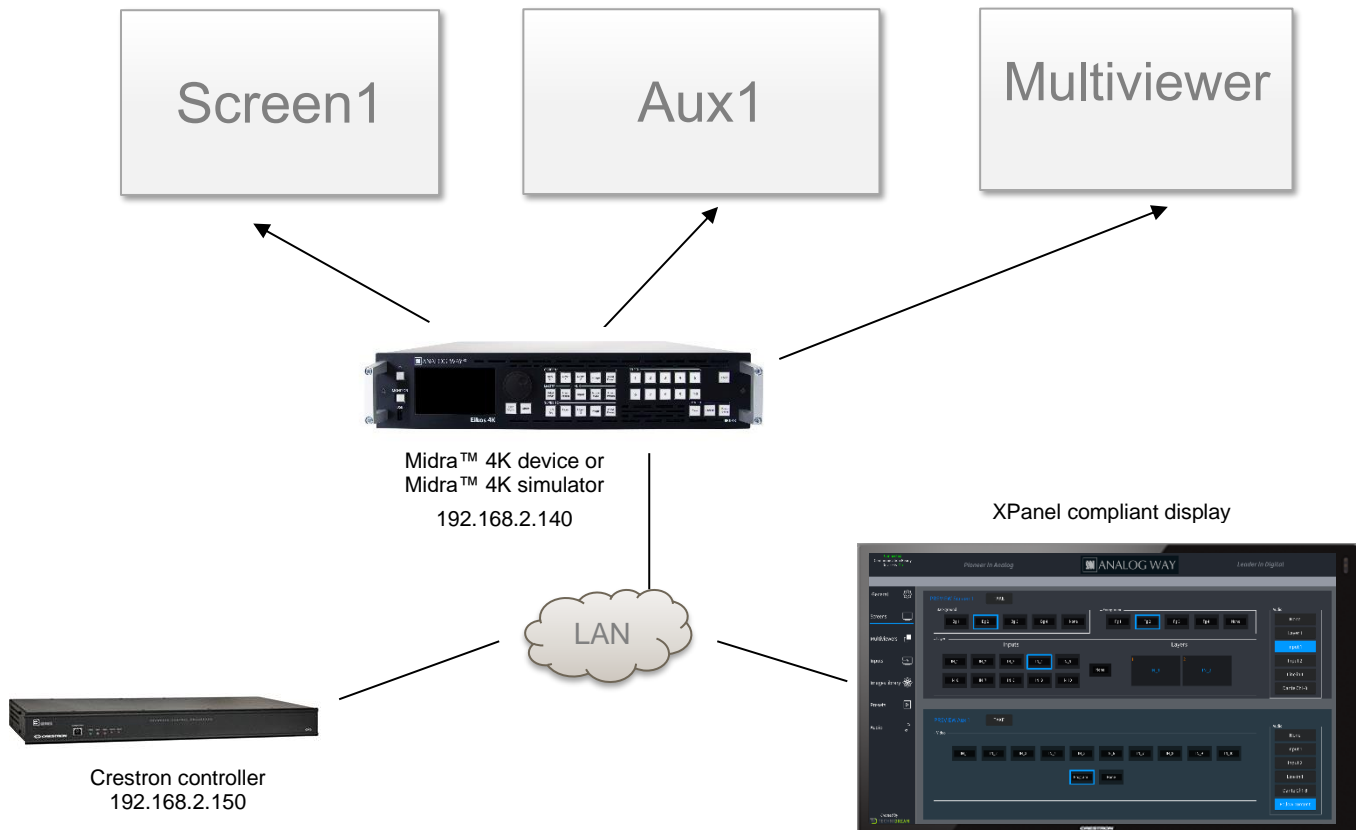
- Any Analog Way Midra™ 4K live presentation switcher (Eikos 4K, Pulse 4K, QuickMatrix 4K and QuickVu 4K) or the Midra™ 4K Simulator
- A 3-series or 4-series Crestron processor with Ethernet connection
- Any Crestron XPanel compliant display

## Recommended software versions

Software	Versions
Midra™ 4K firmware	1.2.7 or above
Midra™ 4K Simulator	1.0.7 or above
SIMPL Windows	4.14.31 or above
VTPro-e	6.2.02.08 or above
Smart Graphics™	2.17.01.01 or above
Device database	200.50.001.00 or above
Crestron database	203.05.001.00 or above
Simlp+ cross compiler	1.3 or above

## Configuration and settings for running the 'advanced' example

The example provided within the package has been designed to control a Midra™ 4K live presentation switcher configured as “Mixer”, i.e. one Screen, one Auxiliary output and one Multiviewer. Before running this sample, please make sure your configuration (as well as the IP addresses) matches the diagram below:



The example also can use up to 10 Screen memories, AUX memories, Master memories and Multiviewer memories that should be created with the Web RCS before running it.

- Screen 1 contain 2 layers
- Aux 1 can be used to display screen 1 program or any of the 10 inputs (scaled)
- Multiviewer is used to preview sources or screen 1 (PGM and PRW). 10 widgets can be controlled by the demo application

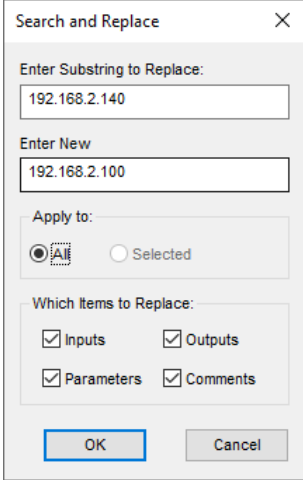
Of course, you can reuse this example as much as necessary to implement your own solution.

Note that the included demo touchpanel is built using Smart Graphics™ elements, however the underlying controls available in the module can be linked to a touchpanel implementation of your choice, and therefore can be implemented with or without Smart Graphics™ for use on Ipad, Xpanel, etc.

## Customize the IP address of the Midra™ 4K device

Before running the demo program to control your own Midra™ 4K live presentation switcher or your Midra™ 4K Simulator, it is important to customize some settings regarding the Midra™ 4K device that will be controlled:

- Open the Midra™ 4K SIMPL demo program (*MidraCrestronDemo.smw*). There are two versions of the demo program available, one for the 3-series and one for the 4-series Crestron processors. Select the one that matches the type of controller you intend to use.
- If the program will control a real Midra™ 4K device, then select the *S-1: Init* folder and press F9 to replace the default IP address (192.168.2.140) with your Midra™ 4K device IP address (ex. 192.168.2.100):



Search and Replace

Enter Substring to Replace:  
192.168.2.140

Enter New  
192.168.2.100

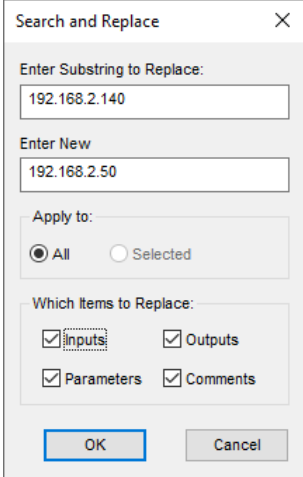
Apply to:  
 All  Selected

Which Items to Replace:  
 Inputs  Outputs  
 Parameters  Comments

OK Cancel

Then go to end of the first module *S-1.1 : Multiple Serial Send* and modify the default Midra™ 4K MAC address with the one from your Midra 4K device (for ex. 80:1F:12:40:59:CE).

- On the contrary, if you plan to control the Midra™ 4K Simulator instead of a real Midra™ 4K device, then select the *S-1: Init* folder and press F9 to replace the default IP address (192.168.2.140) with the IP address of the computer running the Midra 4K Simulator (for ex. 192.168.2.50):



Search and Replace

Enter Substring to Replace:  
192.168.2.140

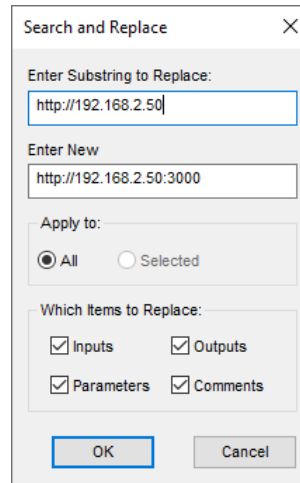
Enter New  
192.168.2.50

Apply to:  
 All  Selected

Which Items to Replace:  
 Inputs  Outputs  
 Parameters  Comments

OK Cancel

Press F9 again to replace the default Midra™ 4K device access URL (<http://192.168.2.140>) by the Midra™ 4K Simulator access URL available on TCP port 3000 (for example <http://192.168.2.50:3000>):



Then go to end of the first module *S-1.1 : Multiple Serial Send* and modify the default Midra™ 4K MAC address by the one from the Midra 4K Simulator (always 11-22-33-44-55-66).

- If the Web RCS has been configured to reached only via the HTTPS secured protocol, you will need to replace all the HTTP URL to HTTPS URL.
- Recompile and upload the program on a Crestron controller.

Do not forget to update the connection parameters when launching the demo Xpanel to access your Crestron controller. By default, the Xpanel application will try to connect on 192.168.2.150.

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