

# INTRODUCTION

## Crestron® driver for Alta 4K series

V1.0.0

*Developed by*

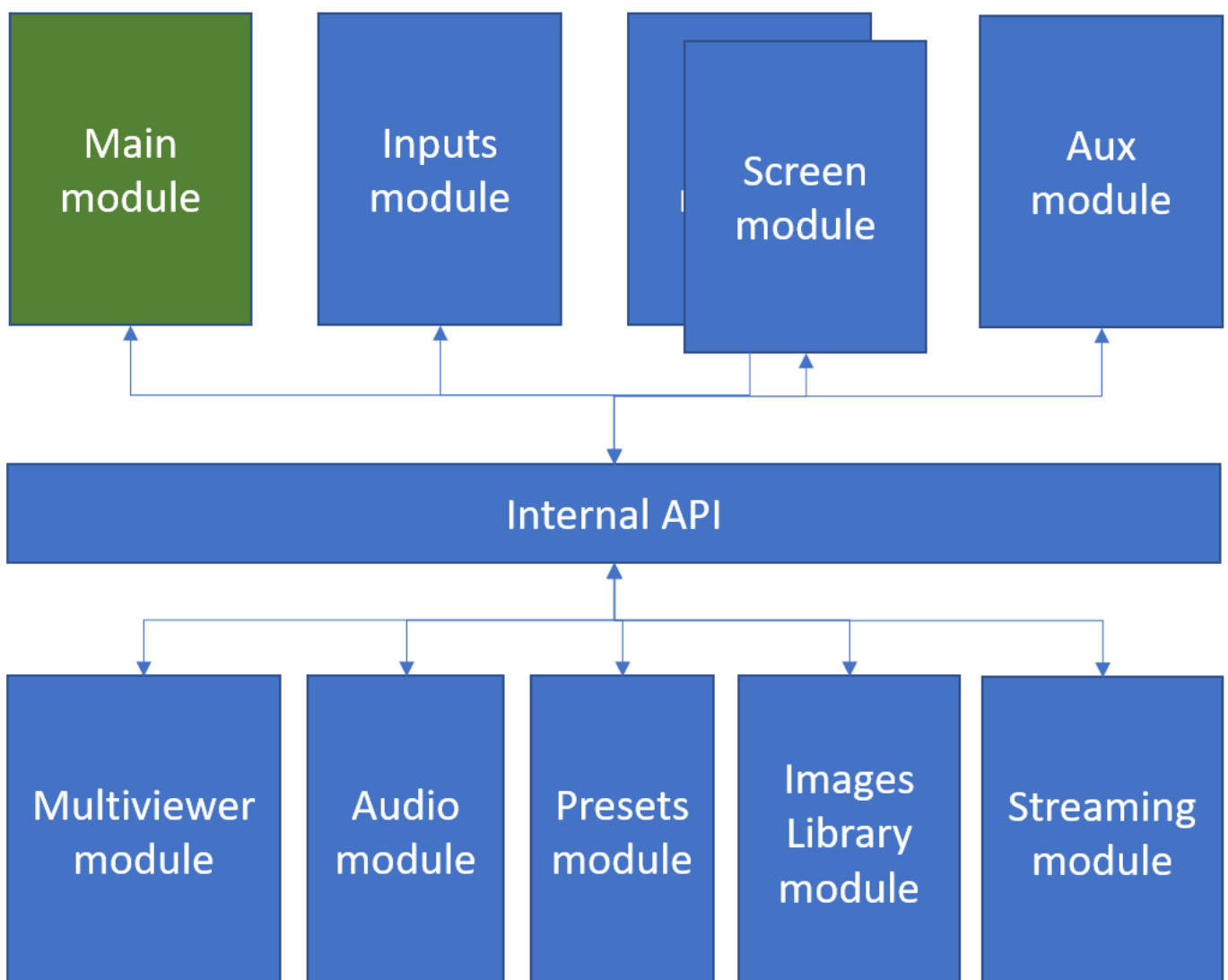


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*Pioneer in Analog, Leader in Digital*

## Description

The **Crestron driver for the Alta 4K series** allows developers to remotely control the standard features of an Alta 4K live presentation switcher from any Crestron 3-Series or Crestron 4-Series control system (or VC-4 software-based control platform). 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 Crestron driver for the Alta 4K series (for 3-series and 4-series Crestron processors or a VC-4 Crestron Virtual Control Server Software)
- 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 livestreaming
- Control device (reboot, shutdown or wakeup)

## Requirements

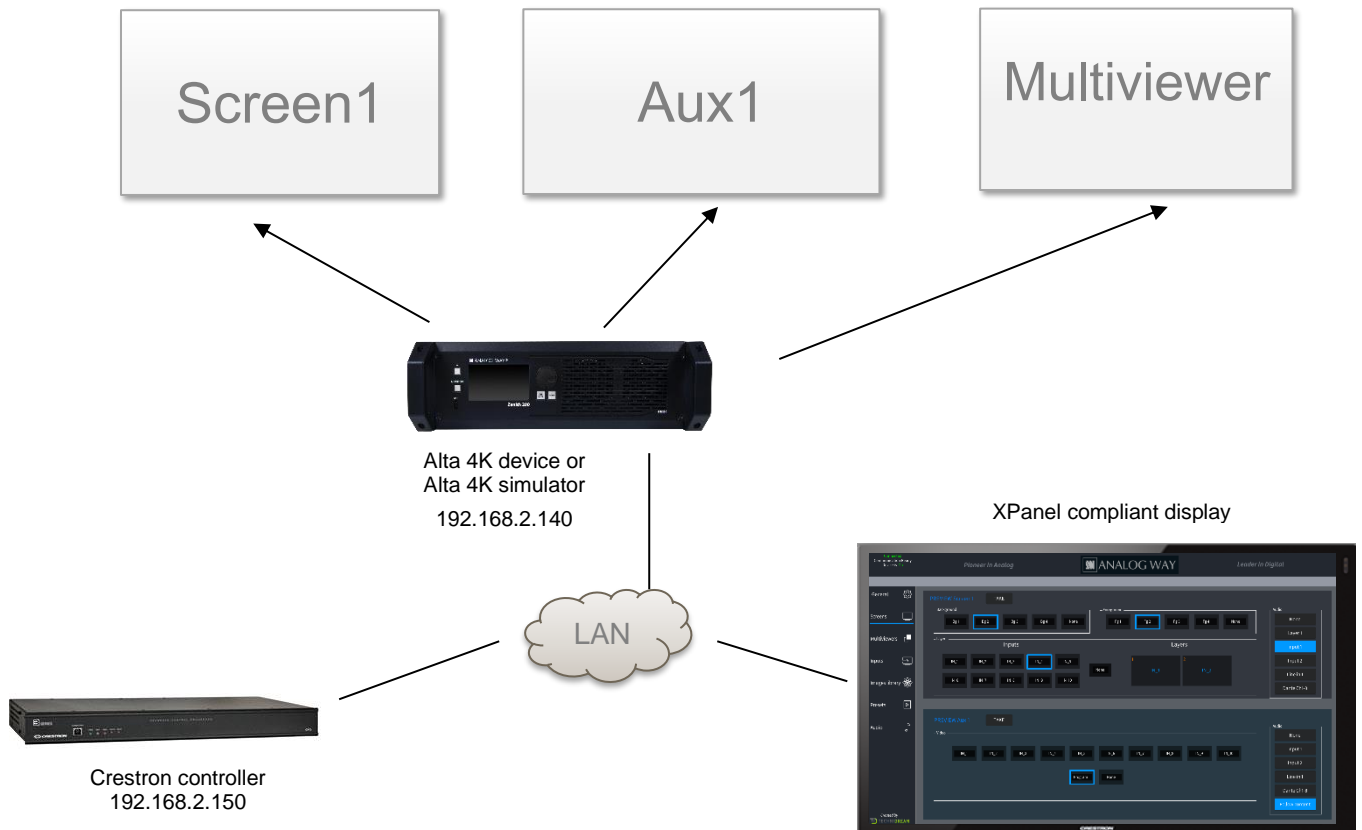
- Any Analog Way Alta 4K live presentation switcher (Zenith 100 or Zenith 200) or the Alta 4K Simulator
- A 3-series or 4-series Crestron processor with Ethernet connection or a VC-4 Crestron Virtual Control Server Software
- Any Crestron XPanel compliant display

## Recommended software versions

Software	Versions
Alta 4K firmware	1.0.0 or above
Alta 4K Simulator	1.0.0 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
Simpl+ 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 an Alta 4K live presentation switcher configured with 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.

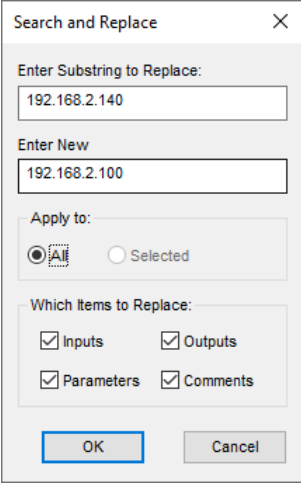
- Screen 1 contain 2 layers
- Aux 1 can be used to display screen 1 program or any of the 10 inputs (scaled)
- Multiviewer is used to preview sources or screen 1 (PGM and PRW). 10 widgets can be controlled by the demo application

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

## Customize the IP address of the Alta 4K device

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

- Open the Alta 4K SIMPL demo program (*AltaCrestronDemo.smw*).
- If the program will control a real Alta 4K device, then select the *S-1: Init* folder and press F9 to replace the default IP address (192.168.2.140) with your Alta 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

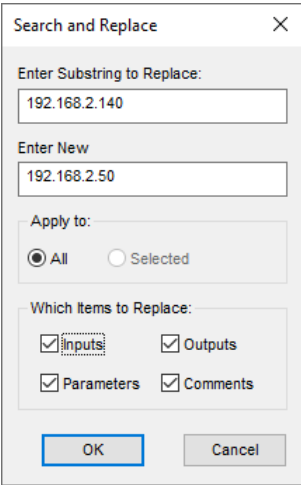
Apply to:  
 All  Selected

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 Alta 4K MAC address with the one from your Alta 4K device (for ex. 80:1F:12:40:59:CE).

- On the contrary, if you plan to control the Alta 4K Simulator instead of a real Alta 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 Alta 4K Simulator (for ex. 192.168.2.50):



Search and Replace

Enter Substring to Replace:  
192.168.2.140

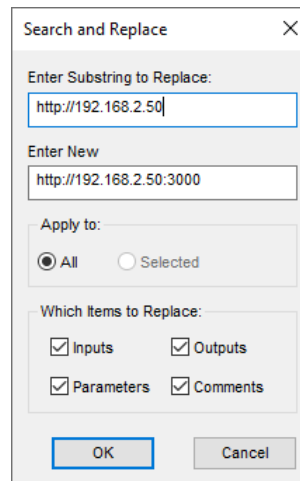
Enter New  
192.168.2.50

Apply to:  
 All  Selected

Which Items to Replace:  
 Inputs  Outputs  
 Parameters  Comments

OK Cancel

Press F9 again to replace the default Alta 4K device access URL (<http://192.168.2.140>) by the Alta 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 Alta 4K MAC address by the one from the Alta 4K Simulator (always 11-22-33-44-55-66).

- 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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