

CRESTRON INTEGRATION MODULE

INTRODUCTION

Ultamation's SONY TV module provides the ability to launch and terminate apps on a SONY TV through a Crestron system. The module gets the list of available apps from the TV and lets you launch them. Or launch a custom app using an app's URI string. The URI for each app's icon are also available to use.

This document is intended for Authorised Crestron Programmers and assumes you are familiar with Crestron control systems, networking and programming.

To achieve this, you will need the following:

- A SONY TV

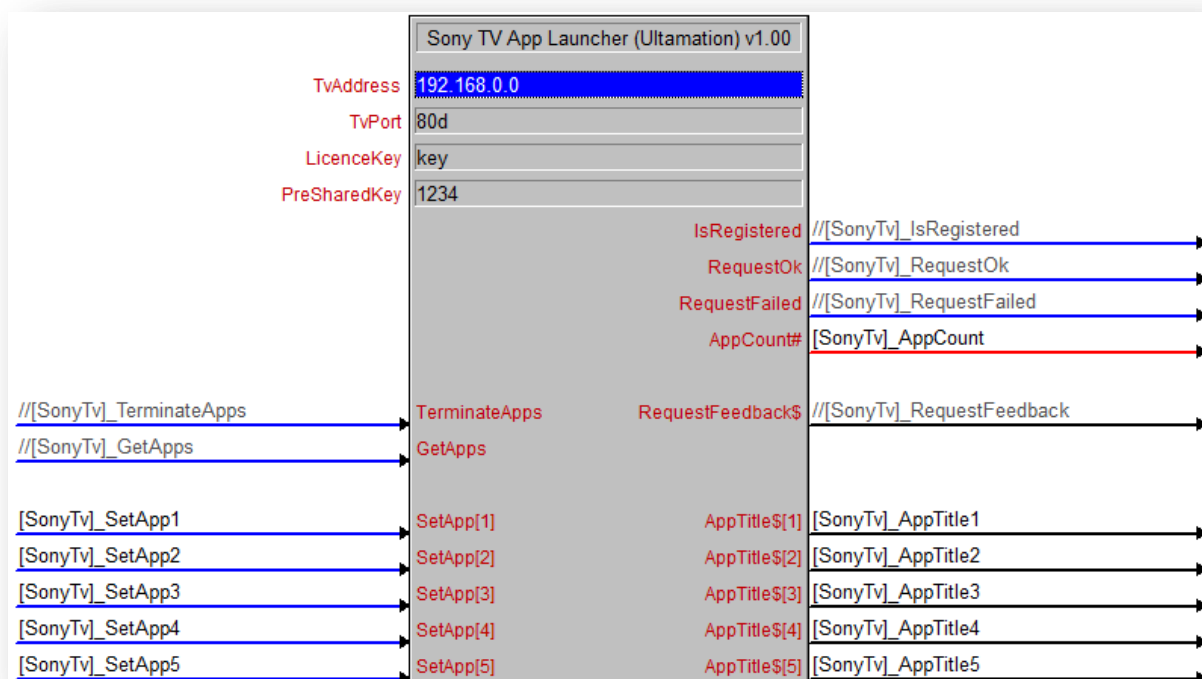
Note: This module is for 3-Series processors ONLY.

Download the module/example program from the Ultamation Shop. For each SONY TV in your system add a SONY TV App Launcher module.

ESSENTIAL STEPS FOR FIRST USE

Install the TV, then in the network settings set the authorisation level to 'Normal and Pre-Shared Key, and choose a key, this key will be needed in the module for authorisation.

MODULE DETAILS



Configure the signals and parameters as follows –

TvAddress – Enter the IP address of the TV this module will control. We recommend a static IP address.

TvPort – Enter the TV's port number. This is 80 by default.

LicenceKey – Enter the Licence Key that you will have received following purchase of the module. This licence key is associated with a specific Crestron processor's serial number and will NOT validate on a different processor. The module will work for 1 hour after processor boot with a missing, or invalid a licence key. Please check the error log following a reboot to confirm the licence key validation was successful. If verification fails, you will see the following in the error log:

```
# SonyTv: Licence verification failed [xxxxx-xxxxx-...] for serial #00123456
# SonyTv: Falling back to trial mode
```

PreSharedKey – Enter the key that was chosen when setting up the authorisation level on the TV. This parameter value is 1234 by default. You must set a key in the TV settings for the module to work, and it can't be 0000.

IsRegistered – When the TV has successfully initialised, this signal will go high. It's for diagnostic purposes only.

RequestOk – After sending a request to the TV, this will go high for half a second to indicate that it was implemented successfully

RequestFailed – After sending a request to the TV, this signal will go high for half a second if the command failed to be implemented.

AppCount# - This is an analogue value to show how many available apps were returned upon sending a 'getApps' command to the TV.

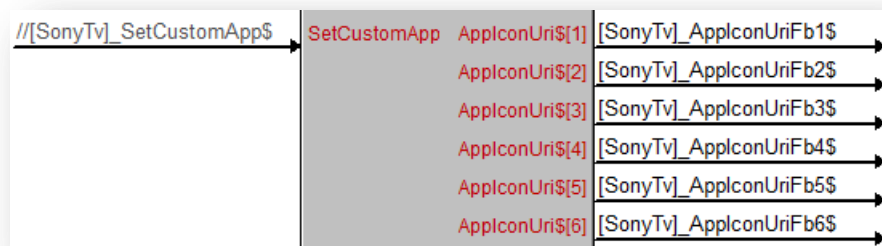
TerminateApps - Pulse this signal to terminate an app that is active on the TV

GetApps – Pulse this signal to get a list of all the available apps on the TV. This should be done at the start, as it populates the internal app list, including the AppTitle[] signals, ApplconUri[] signals.

RequestFeedback\$ -A serial value to give feedback on commands sent to the TV. This will either display a success message or give an error message depending on the response from the TV after sending a command.

SetApp[] - When pulsed, these signals will launch the appropriate app from the app list. E.g. pulsing SetApp[1] will launch the first app in the app list. The list can hold up to 50 apps. A 'GetApps' command must be done before this will work

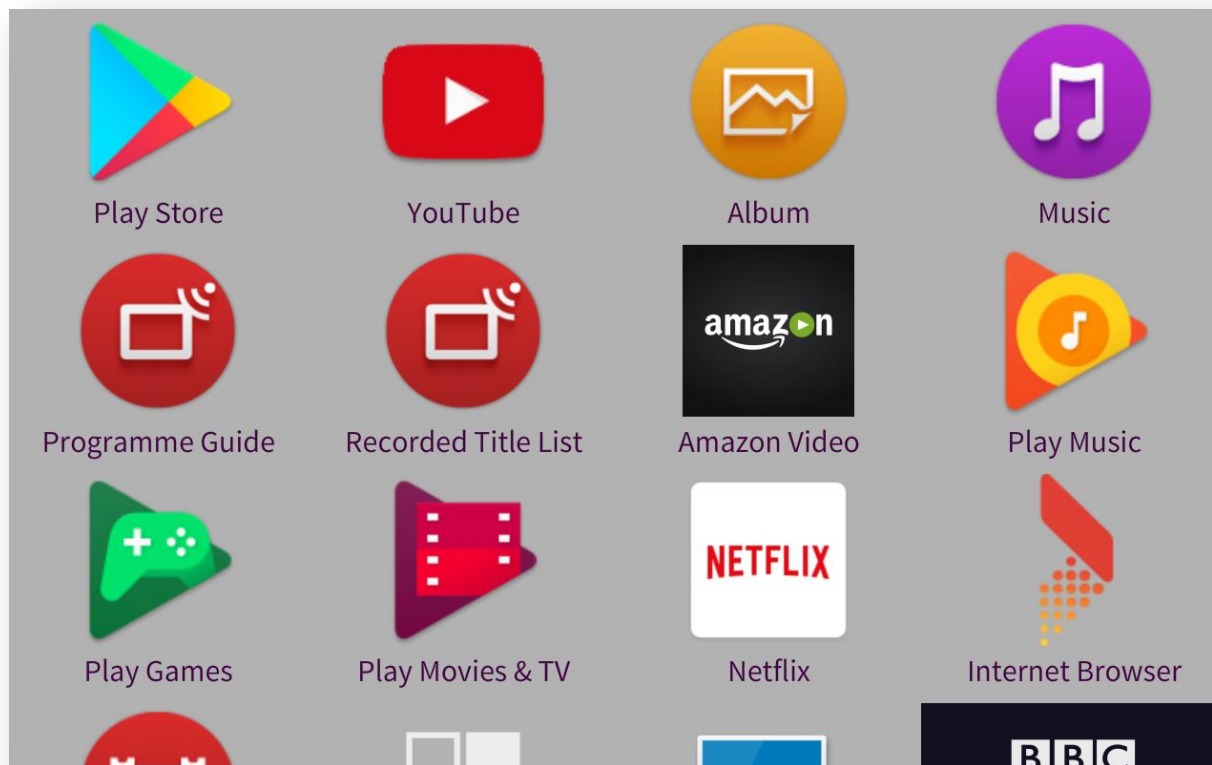
AppTitle[] - Serial values that show the title of the app at that position in the list. E.g. AppTitle[1] shows the title of the first app in the app list. The list holds up to 50 app names.



ApplconUri\$[] – Upon sending a 'getApps' command, these serial signals will populate with the Uri of each app's icon. They are in the same order as the app list, and they also go up to 50 signals.

SetCustomAppUri\$ - This is a serial input for you to send your own app uri to and it will be launched on the TV.

TOUCH PANEL



We have included an example touch panel with the example program. This displays the available apps on the TV.

Upon doing a `getApps` command, the app list will be populated, and the touch panel will show the icons and titles of each app in the list. Press an icon to set it as the active app on the TV.

Licence

This module (including software, images and any and all other associated assets distributed as part of the purchased download package) is licenced PER Processor.

A licence key is generated at the point of purchase and is linked at that time to specific information that MUST be provided at the time of purchase. A purchase should not be completed without correct information as refunds cannot be issued for errors or changes made to details following purchase.

The licence key for each processor will be delivered via email along with links to download the module. There is no physical delivery.

The module is provided without any warranty with respect to SONY. We will endeavour, through best efforts, to maintain the module's functionality and any bug fixes will be provided free-of-charge. Additional functionality may be released as a variation of this module and this will be a separate, purchasable, product.