



HDanywhere Modular HDMI Matrix Switch Driver

For use with:



Driver software written and provided by



Introduction

This driver has been designed to allow an AMX NetLinx system to control an HDanywhere Modular HDMI Matrix Switch, via TCP-IP. This guide describes the process for adding and configuring the driver.

This driver was originally written using NetLinx Studio version **1.47**, build **1.15.230**.

The driver release version is **1.2**.

Implementation

To interface to the AMX **HDAnywhere** module, the programmer must perform the following steps:

1. Define the device ID for the switch that will be controlled.
2. Define the virtual device ID that the program uses to communicate with the module.

An example of how to do this is shown below.

define_device

```
dvHDAnywhere      = 0:4:0      // The Switch connected via Ethernet
                          (TCP-IP)
vdvModuleModular  = 33001:1:0  // The virtual device used for
                          // communication between the Program and
                          // module
```

define_variable

```
char SWITCH_IP[15] = '192.168.3.123'; // IP Address of the switch
```

```
define_module 'HDAnywhere_Modular' HDAnywhere( vdvModuleModular,
dvHDAnywhere_Switch, SWITCH_IP );
```

Command Control

The UI module controls the switch via commands sent to the switch module through the virtual device (NetLinx command *send_command*). The commands supported by the switch module are listed below.

Command	Description
SW [<Outputs>=<input>;]+	Switches outputs = Valid range is 1 to number of Outputs. = Valid range is 1 to number of Inputs. SW 1=4; Single Switch SW 1,2,4,7,8=4; Multiple Switch to same input SW 1=1;2=2;7=4;8=4; Multiple Switch to different inputs Outputs 1,2,3,4,5 to input 2 SEND_COMMAND vdvDevice,"'SW 1,2,3,4,5=2;'";
CEC [<Outputs>=On;]	Sends CEC ON command to defined output(s)
CEC [<Outputs>=Off;]	Sends CEC OFF command to defined output(s)
SW?	Request current status SEND_COMMAND 33001,"'SW?;'";
GET_VERSION	Request Version Number

Table 1 – Send Command Definitions

String Feedback

The UI module receives feedback from the switch via a string event sent out through the virtual device. The string feedback supported is listed below.

String	Description
SW [<Outputs>=<Input>;]+	Output 1 is set to input 2, output 2 to input 4. All current output settings are reported in one single string. SW 1=2;2=4;
Version = v*.*	Version Number

Table 2 - Command Feedback Definitions