



# **Anthem MDX Series URC Driver**

Revision: 20190716  
Date: 2019-07-16  
Author(s): Richard Mullins

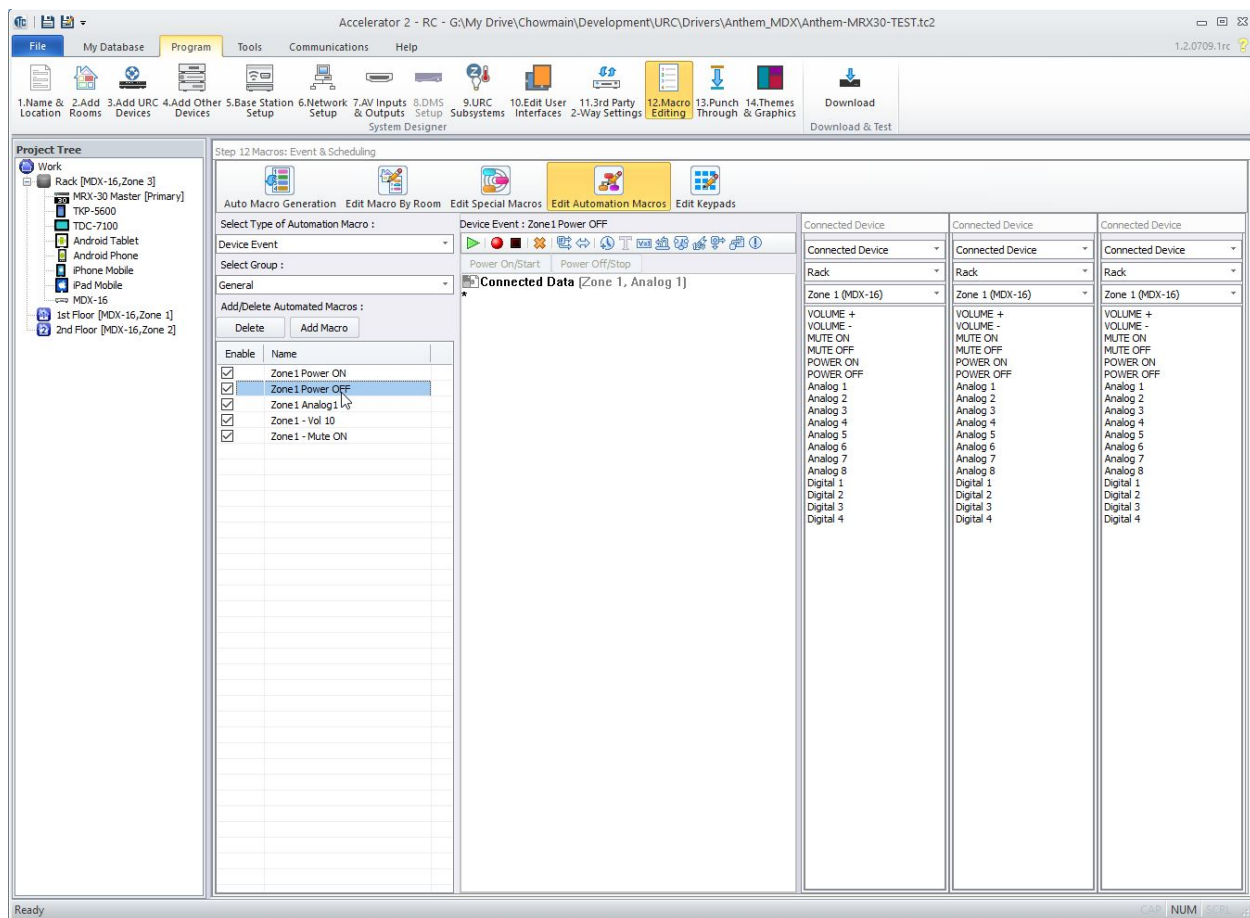
<b>Overview</b>	<b>3</b>
<b>Installation</b>	<b>4</b>
Import TCM	4
Adding the module to your project	5
Add the module with IP Control	5
Network Settings	6
Add the module with RS232 Control	7
Serial Port Settings	8
<b>System Parameters</b>	<b>9</b>
DEBUG	9
LOG_LEVEL	9
<b>AV Inputs and Outputs</b>	<b>10</b>
<b>Driver Commands</b>	<b>10</b>
<b>Two Way Commands</b>	<b>10</b>
Set Volume	10
<b>Events</b>	<b>11</b>
Power State	11
Input State	11
Volume State	12
Mute Change	12
<b>Anthem MDX Log Files</b>	<b>13</b>

## Overview

The Anthem MDX URC module allows for control of the MDX-8 and MDX-16 units.

The module provides simple control over each zone with driver functions for the most common controls.

For more complex programming a number of Two Way commands and Events are available for use in your macros. Each Two Way command and Event is detailed in the following sections.

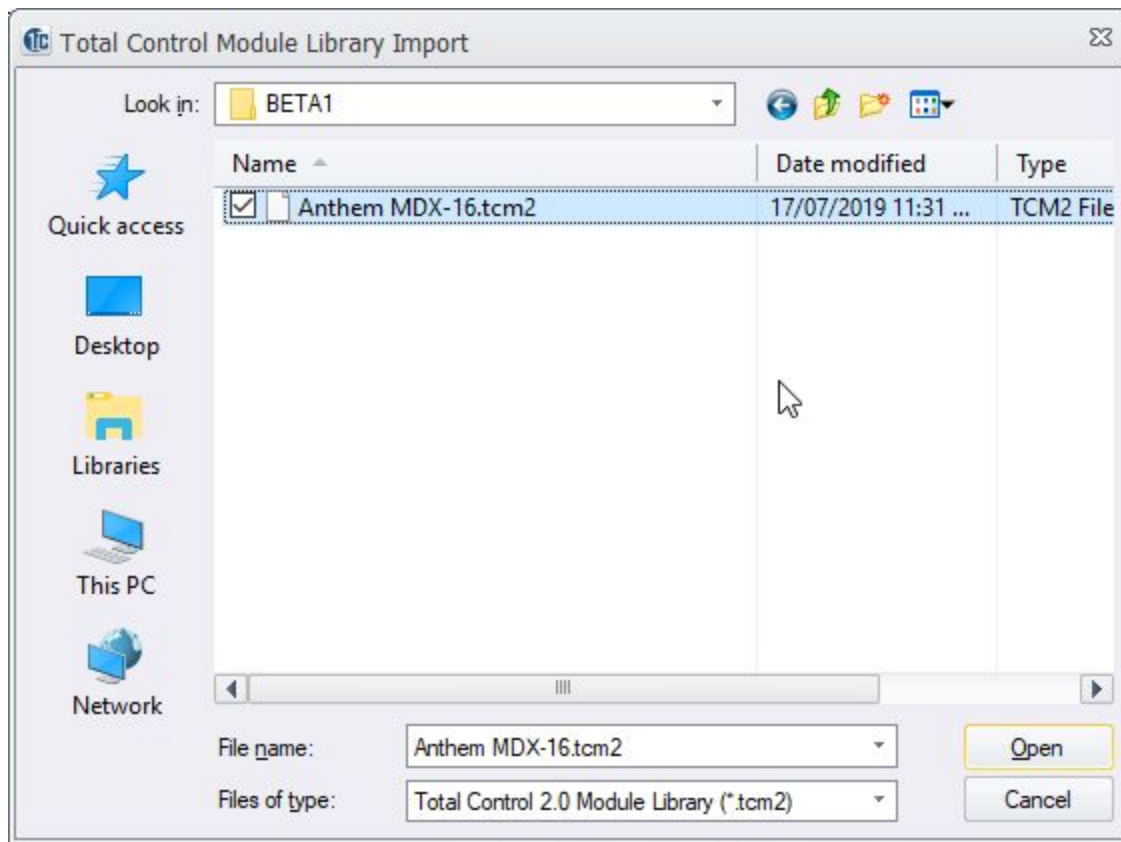


## Installation

To install the Anthem MDX module you will need to do the following.

### Import TCM

From the File menu -> Import TCM files



## Adding the module to your project

### Add the module with IP Control

The module includes all available configurations with single or stacked MCA-66 or MCA-88 units (up to six units stacked). You can select the total number of available zones from the list of available configurations. For example if you have two MCA-88's then you'd pick MCA-88 (16-ZONE) from the list

In Step 4. Add Other Devices

Step 1 - select the room for the module

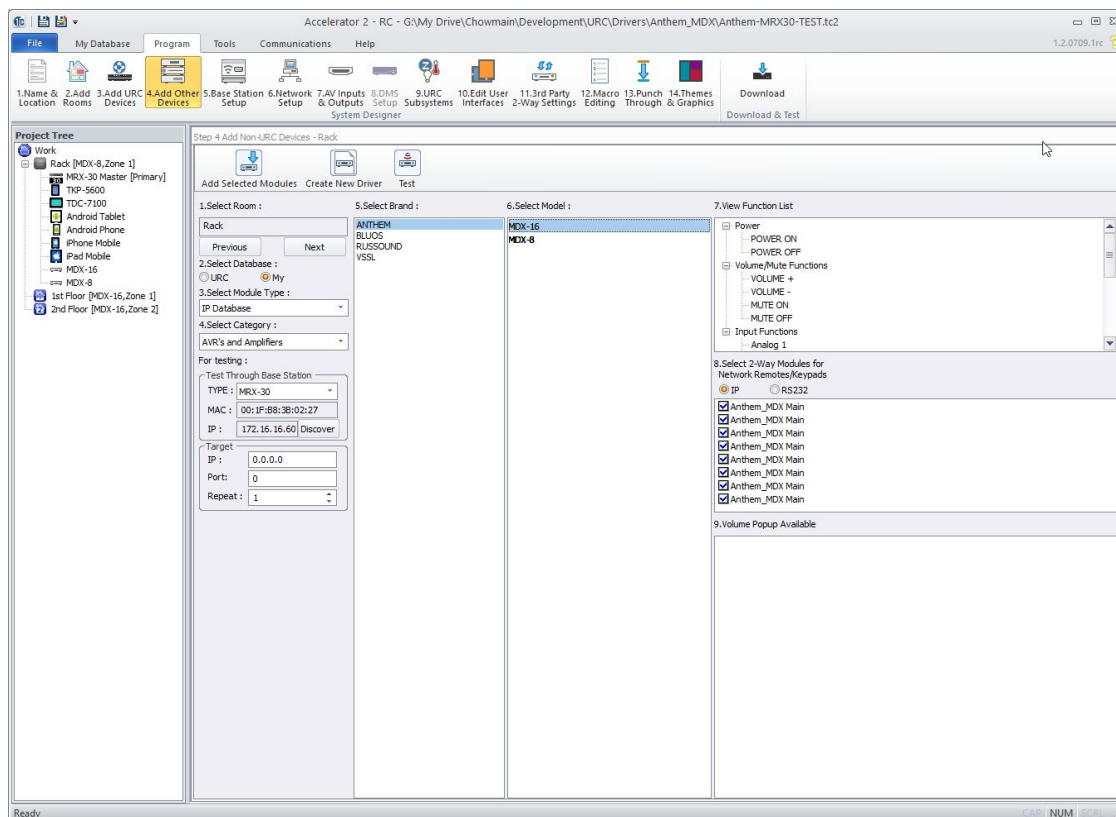
Step 2 - Select My

Step 3 - Select IP Control

Step 4 - Select AVR's and Amplifiers

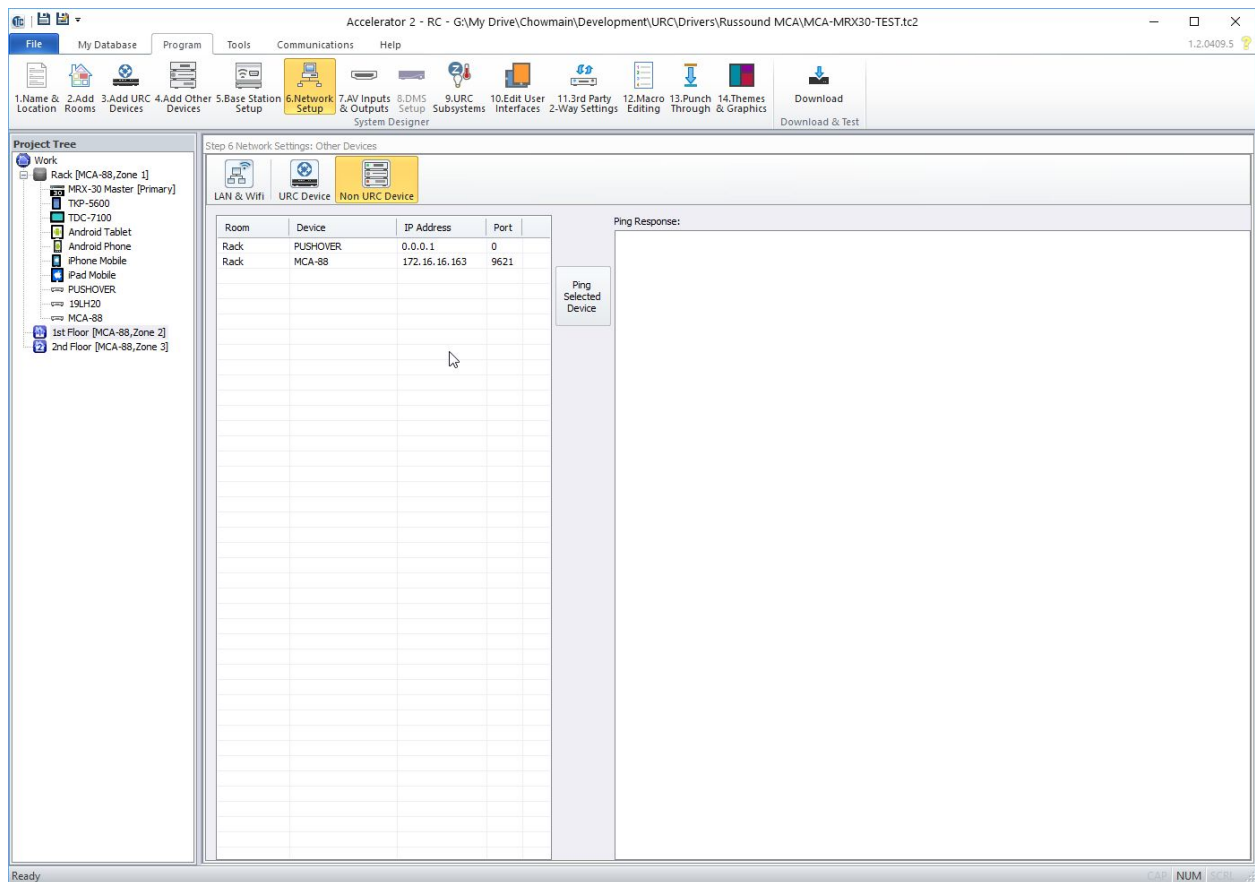
Step 5 - Select Anthem

Step 6 - Select your MDX model



## Network Settings

Finally go to Step 6. Network Settings and Choose Non URC Devices. In the IP Address field enter the IP address for the Anthem MDX unit has the network connection. The Port field is not used and can be left at default 9621.



## Add the module with RS232 Control

The module includes all available configurations with single or stacked MCA-66 or MCA-88 units (up to six units stacked). You can select the total number of available zones from the list of available configurations. For example if you have two MCA-88's then you'd pick MCA-88 (16-ZONE) from the list

### In Step 4. Add Other Devices

Step 1 - select the room for the module

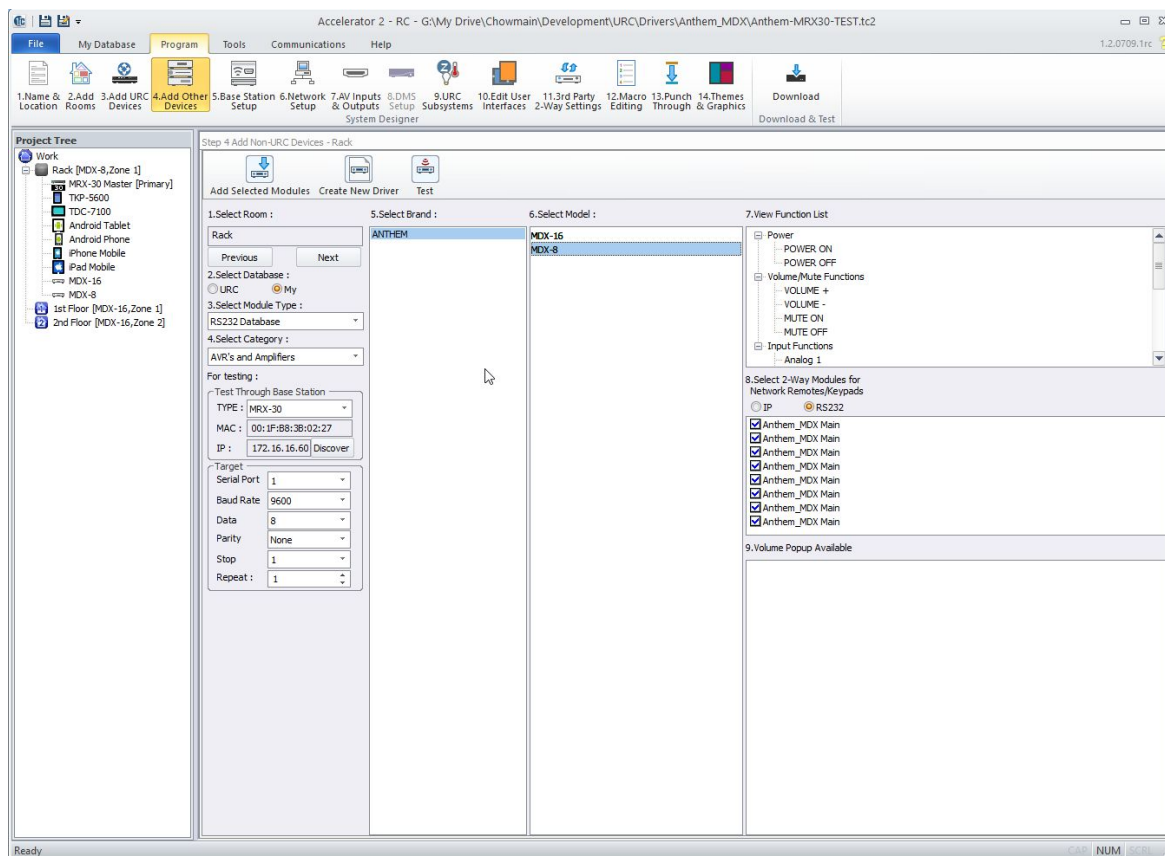
Step 2 - Select My

Step 3 - Select RS232 Database

Step 4 - Select AVR's and Amplifiers

Step 5 - Select Anthem

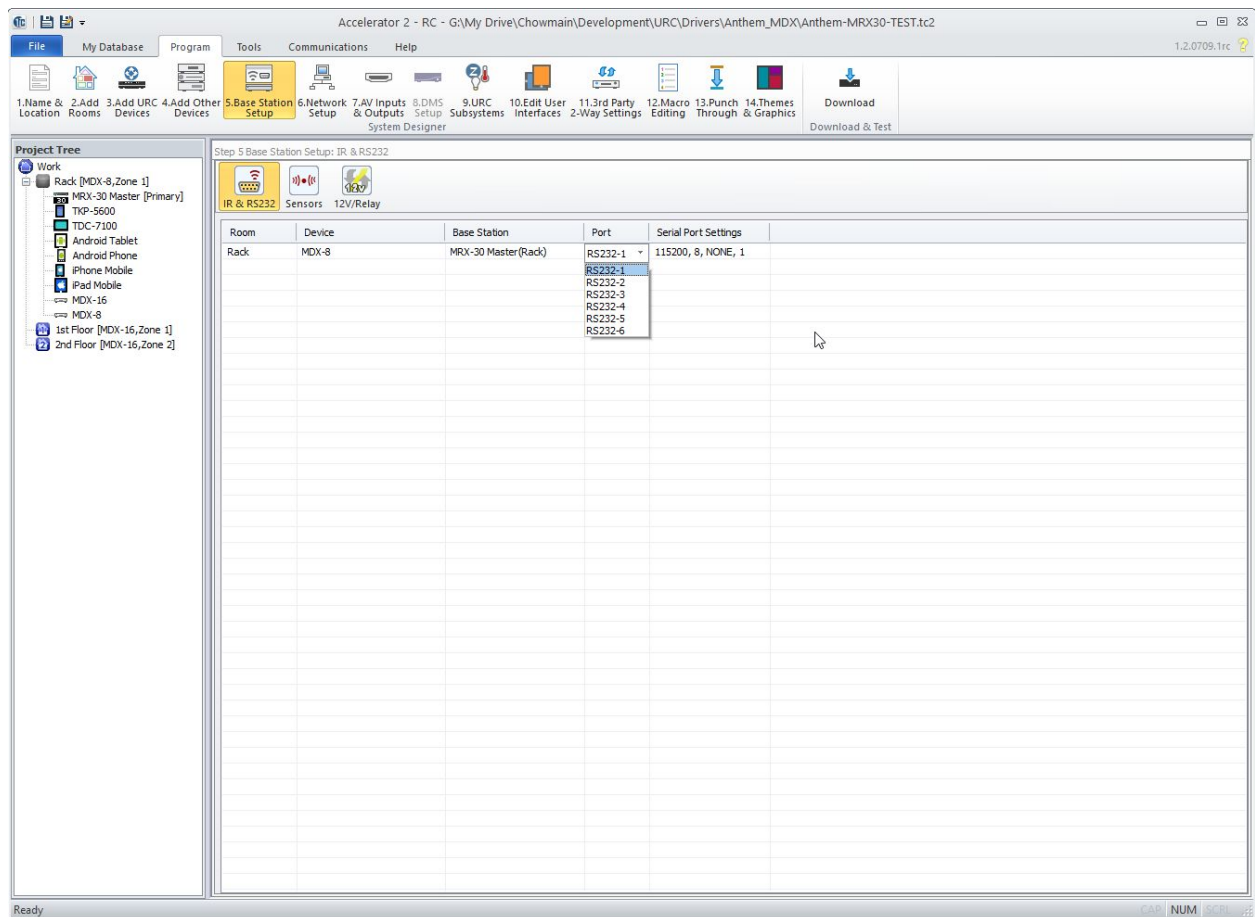
Step 6 - Select your MDX model



## Serial Port Settings

Go to Step 5 and click on IR & RS232. Find the device you have just added and Select the correct port from the drop down.

Finally, Set the baud rate to 115200, the Data bits to 8, Parity to None and the Stop bits to 1.





## System Parameters

The Anthem MDX module doesn't require any parameters but there are some options that have been detailed below.

All system parameters are entered in the following format

KEY=VALUE

The following table details the system parameters that work with this module.

DEBUG        Puts the module into it's debug mode

LOG\_LEVEL    Sets the level of detail for the logs (if DEBUG is ON)

### DEBUG

If the DEBUG parameter is present and set to ON (DEBUG=ON) then detailed log files will be written to the base station. The log files can be fetched by connecting to the base station with FTP and looking in the /data/UrcDebugging/LOG/Anthem MDX/<NUM> folder. This will cause additional load on the processor so it should be left off unless you are asked to turn it on.

### LOG\_LEVEL

If the DEBUG parameter is present and set to ON (DEBUG=ON) then this option can set how much detail is written to the logs. If this option isn't preset the default level is debug. The higher levels include all of the lower levels as well. The optional levels are as follows

Error	At Error level on serious errors are logged
Support	At the support level only setup info and errors are logged
Warning	The warning level includes non-critical issues
Info	The info level contains a lot more information about the running module
Debug	The debug level contains a great deal of extra information that is useful for fault finding, but it will start to affect system performance
Trace	The Trace level contains the most information and should only be used if requested by support staff. It will slow the system while its running and also create a very large log file.

## AV Inputs and Outputs

The Anthem MDX module is configured as a matrix switcher so you can configure your zones in Step 7, in the Zone Assignment section. Simply drag the zones into the rooms you have created to configure the units. The sources can be configured in the Inputs section.

## Driver Commands

The Anthem module has many of the command directly available from the driver. You can use these commands directly on buttons and in your macros. Volume, Mute, Power and Source selection are all available.

## Two Way Commands

The Anthem MDX module comes with a single Two Way command for more advanced programming. The command is detailed below.

### Set Volume

The Set Volume command can be used to set a specific zone to a volume of your choice. The volume can be set from 0 to 100.

## Events

The module supports a series of events for advanced automation. Each Event is detailed below.

### Power State

The Power State event will trigger when the power is set to ON or OFF (set in State) for the zone you have specified.

### Input State

The Input State event will trigger when the input changes to the once specified with the Input drop down for the specified zone. Note that this module works for both the MDX-8 and MDX-16 so it shows all the available inputs for the bigger unit. See the table below for available sources for each system.

Input	MDX-8	MDX-16
Analog 1	<b>Available</b>	<b>Available</b>
Analog 2	<b>Available</b>	<b>Available</b>
Analog 3	<b>Available</b>	<b>Available</b>
Analog 4	<b>Available</b>	<b>Available</b>
Analog 5	Not Available	<b>Available</b>
Analog 6	Not Available	<b>Available</b>
Analog 7	Not Available	<b>Available</b>
Analog 8	Not Available	<b>Available</b>
Digital 1	<b>Available</b>	<b>Available</b>
Digital 2	Not Available	<b>Available</b>
Digital 3	Not Available	<b>Available</b>
Digital 4	Not Available	<b>Available</b>

## Volume State

The Volume State event will trigger when the volume reaches the level entered into the Level parameter for the zone you have specified.

## Mute Change

The Mute State event will trigger when the mute is set to ON or OFF (set in State) for the zone you have specified.

## Anthem MDX Log Files

If you want to check on what the driver is doing or if you are having problems then you will need to turn on the logging facility. To enable logging you need to add

DEBUG=ON

To your system parameters. Once you have done that and restarted your project logs will be written to the process in the /data/UrcDebugging/LOG/Anthem\_MDX/<NUM>. The <NUM> is a number that is generated internally to URC and will be different on each processor. The number itself isn't important but if you modify your project and add more Two-Way modules this number might change so be sure to check the dates of the logs to make sure you are checking the correct ones.

You can see an example of the log location below.

