Audio Technica Digital Mixer 1012 IP Driver.

Configuration:
License Key. The driver will run for 2 hours without a license key. The timer restarts every time the processor is rebooted or uploaded.

IP Address. This is the IP address of the audio-technica 1012 unit that requires control. This address can be found in the web interface of the 1012 or via the front panel controls. I would recommend fixing this IP address either in the web interface or via your router.

Communications Port. This is the port used to send commands to the ATDM1012. This port is set to 17300 by default but can be changed in the wed interface if this causes conflicts with other equipment on the network.

Mulitcast IP address. This is the multicast address used by the ATDM1012 to send feedback to devices on the network. The driver needs to be set to listen to this feedback. The default IP is 225.0.0.100. Only change this if there is a conflict with other equipment on the network.

Multicast Port. This is the port used by the multicast address to send feedback. This should be set to 17000 by default. Only change this if there is a conflict with other equipment on the network.

The attached image shows where to find the information required above.

Input names. Give each input you are using a descriptive name. This will help as you programme your system.

Output Names. Give each Output you are using a descriptive name. This will help as you programme your system.

Variables:
There are three sets of variables for both Input and Output Gains. These variables are Raw, Percentage and dB.
The Raw variable is an integer to be used on faders or where you need to set a specific level. The Raw values are between 0 and 511.
The percentage value is a string that can be used to display to the user a value in more human readable terms. The value is from 0 to 100%.
The dB value converts the Raw value into dB as per the table on page 254 of the IP protocol. This goes from -infinity to +10db.

There are Boolean variables for each Input and Output mute.

Functions:
There are functions for setting the Input and Output gains for each Channel to a specific value. There is also an Up/Down function that increments and decrements the fader level.
There is a set of Mute functions for each Input and Output Mute. The functions are:
      Mute. Mutes the channel.
      Un-Mute. Unmutes the channel.
      Toggle. Changes the current state of the Mute for that channel.

There are functions to recall and store the 8 presets available in the unit. When a Preset is recalled all fader and mute values are checked and refreshed.

Warning:
You may think that the driver is not controlling the ATDM1012 if you just observe the faders in the web interface. The fader positions and mute indicators only refresh when you reload the page!!!