



CYP IP21 Audio Controller

Control4 Driver User Guide

Driver developed by



Introduction

This driver has been designed to provide control of a CYP IP21 Amplifier via IP.

CYP Configuration

It is recommended that the CYP system be installed, configured and tested by a suitably qualified engineer, according to CYP documentation, prior to integration with this driver.

Driver Installation

Copy the file "amplifier_cyp_ip21.c4i" from the zip package to your Control4 driver location (by default this is Documents\Control4\Drivers). Open Composer and choose the **Search** tab from the **Items** pane.

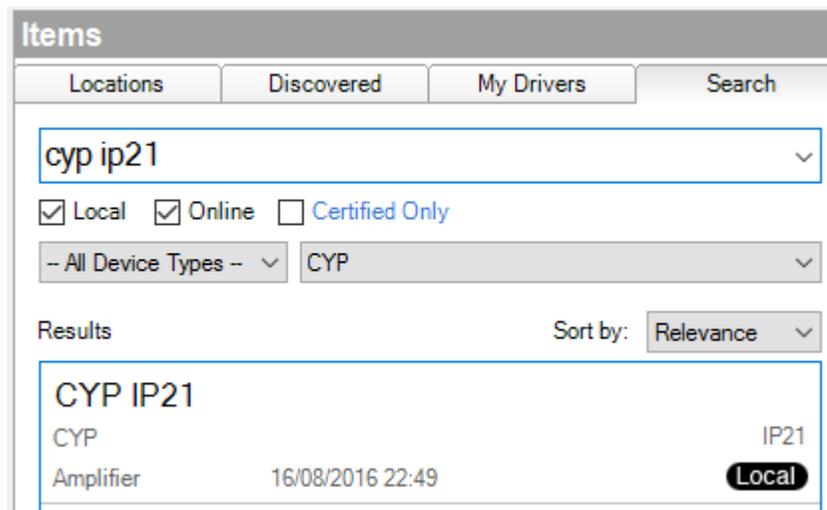


Figure 1: Driver Search

The driver can be found under:

Device Type: Amplifier
Manufacturer: CYP

Add the driver entitled "CYP IP21" into your project.

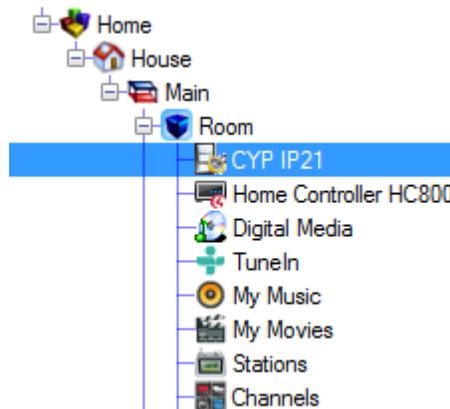


Figure 2: Driver

Driver Configuration

In the **Connections** pane, select **Network** from the top.

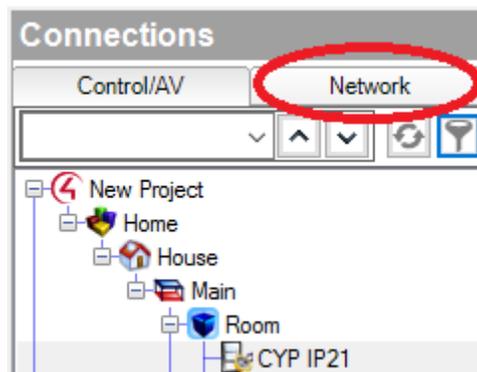
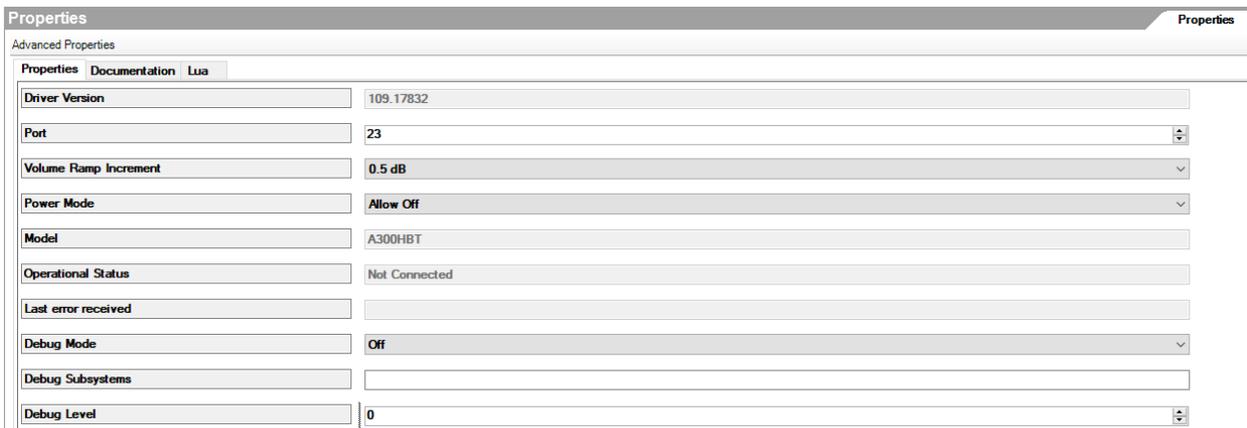


Figure 3: Network Tab

Double click on the CYP IP21 device and then enter the IP address of the device. This can be found by using the CDPS V2.000 software available from CYP (by default, the IP address is set to 192.168.1.50).

The driver properties allow you to make any device specific configuration that is required, as well as reporting the status of the device.



The screenshot shows a 'Properties' window with a tabbed interface. The 'Advanced Properties' tab is active. The 'Properties' sub-tab is selected, showing a list of settings:

- Driver Version: 109.17832
- Port: 23
- Volume Ramp Increment: 0.5 dB
- Power Mode: Allow Off
- Model: A300HBT
- Operational Status: Not Connected
- Last error received: (empty)
- Debug Mode: Off
- Debug Subsystems: (empty)
- Debug Level: 0

Figure 5: Driver Properties

The following properties are available, some of which are user editable:

Setting	Description
Driver Version	Reports the release version of the driver
Port	The port number required for Telnet connections (this will usually be "23")
Volume Ramp Increment	The amount the volume will increase/decrease with a single button press (choose between 0.5dB and 2.0dB)
Power Mode	"Allow Off" will send power commands to switch the amplifier on and off in the usual way. "Always On" will substitute power commands with mute commands.
Model	The model of the device
Operational Status	Reports the current connection status
Last error received	Reports the last error received, if any
Debug Mode	For support use only
Debug Subsystems	For support use only
Debug Level	For support use only

Table 1: Driver Properties

Driver Commands

The driver features a number of commands used for control. Choose the **Programming** pane and select the driver in the **Device Actions** window:

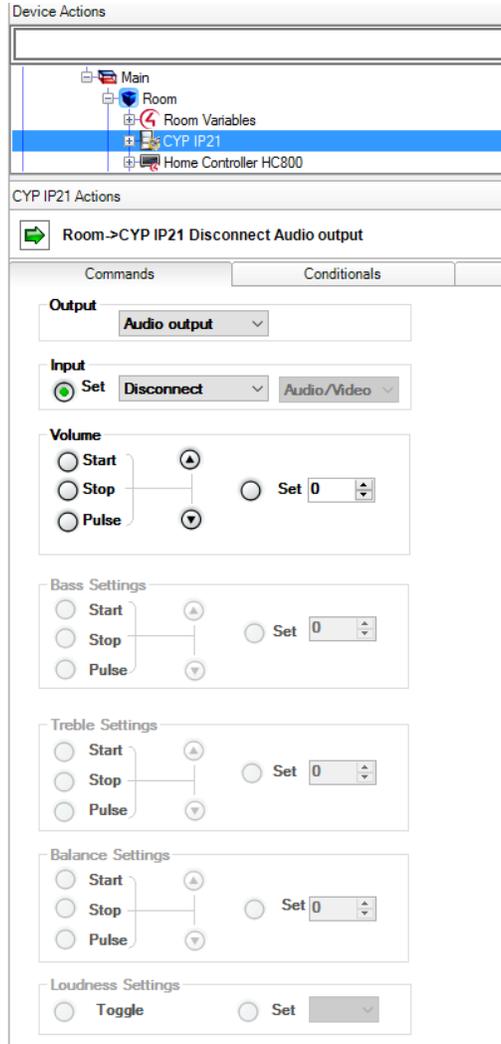


Figure 7: Driver Commands

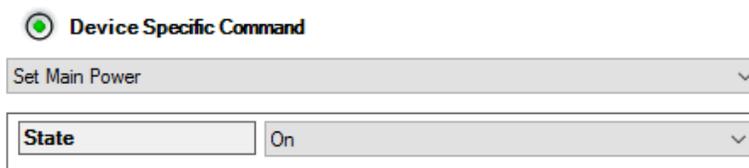


Figure 8: Device Specific Commands

The driver contains the usual commands found in amplifier drivers, including discrete input selection as well as the ability to raise, lower, and set volume. Additionally exposed are some Device Specific Commands. These can be seen in the drop down box in Figure 8.

Driver Variables

The driver features a number of variables for each zone, which provide feedback from the system.

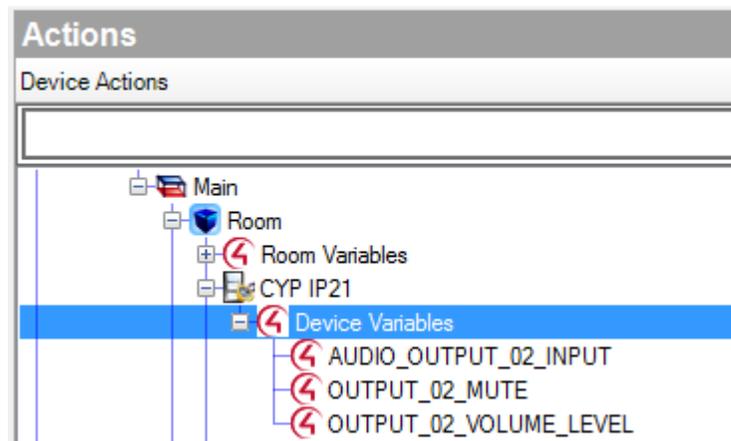


Figure 9: Driver Variables

Variable	Description
AUDIO_OUTPUT_xx_INPUT	The current input
OUTPUT_xx_MUTE	The current mute status
OUTPUT_xx_VOLUME_LEVEL	The current level for volume

Table 2: Driver Variables