



CYP A300 (Serial or IP)

Control4 Driver User Guide

Driver developed by



Introduction

This driver has been designed to provide control of a CYP A300 Amplifier via RS232 or IP. This driver has been written and tested using a CYP AU-A300 amp, firmware version 1.4.

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. Some additional, specific configuration is required to ensure correct operation of the driver.

Driver Installation

Copy the file "amplifier_cyp_a300_ip.c4i" or "amplifier_cyp_a300_serial.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.

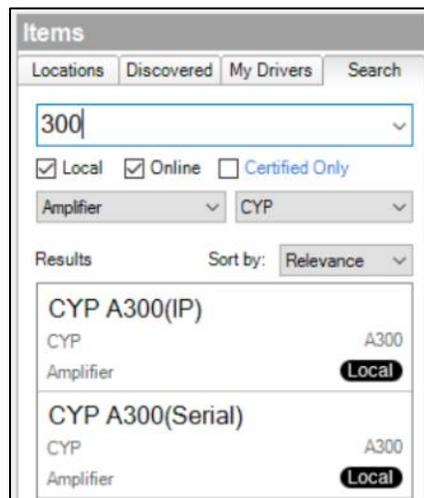


Figure 1: Driver Search

The driver can be found under:

Device Type: Amplifier

Manufacturer: CYP

Add the driver entitled "CYP A300" into your project.

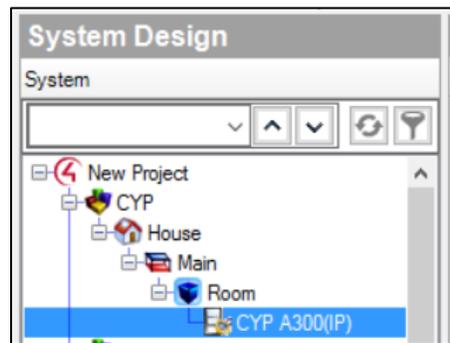


Figure 2: Driver

Driver Configuration (IP)

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

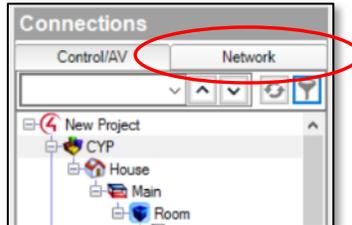


Figure 3: Network Tab

Double click on the CYP A300(IP) device and then enter the IP address of the device. This can be found by pressing the **Menu** button on the device itself and then selecting **IP Config**.



The screenshot shows a table titled "IP Network Connections" with two buttons at the top: "Identify" and "Disconnect". The table has five columns: "Device", "Room", "Type", "Address Type", and "Address".

Device	Room	Type	Address Type	Address
Home Controller HC250	Zone 2 Room	c4:control4_hc250_...	UUID	c4:control4_hc250_homecontroller-home-co...
CYP A300(IP)	Room	c4:lua_gen	IP	

Figure 4: Network Connections

Driver Configuration (Serial)

Choose the **Connections** pane in Composer, and then select the **Control/AV** tab. Click on the A300(Serial) device and drag the serial contact you will use to the Home Controller you will use device.

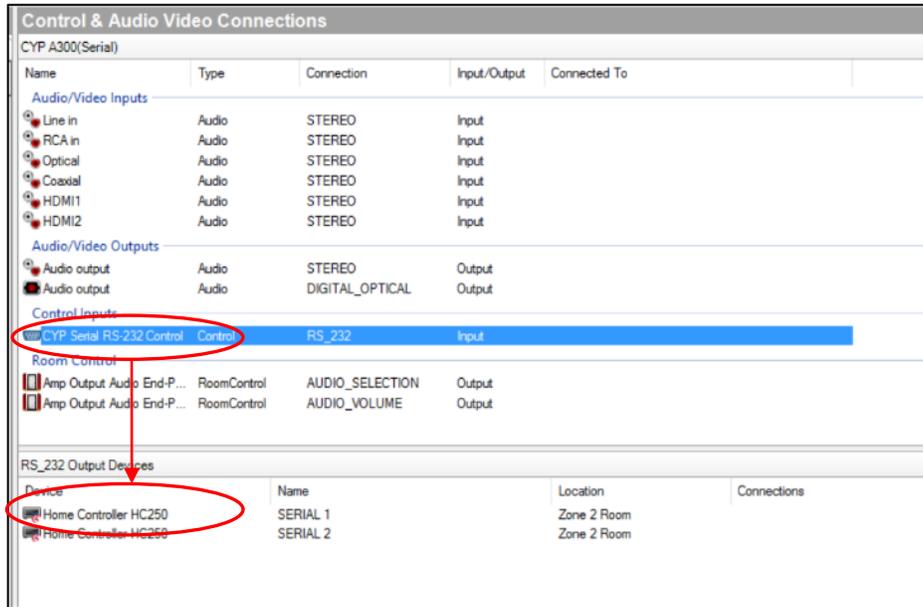
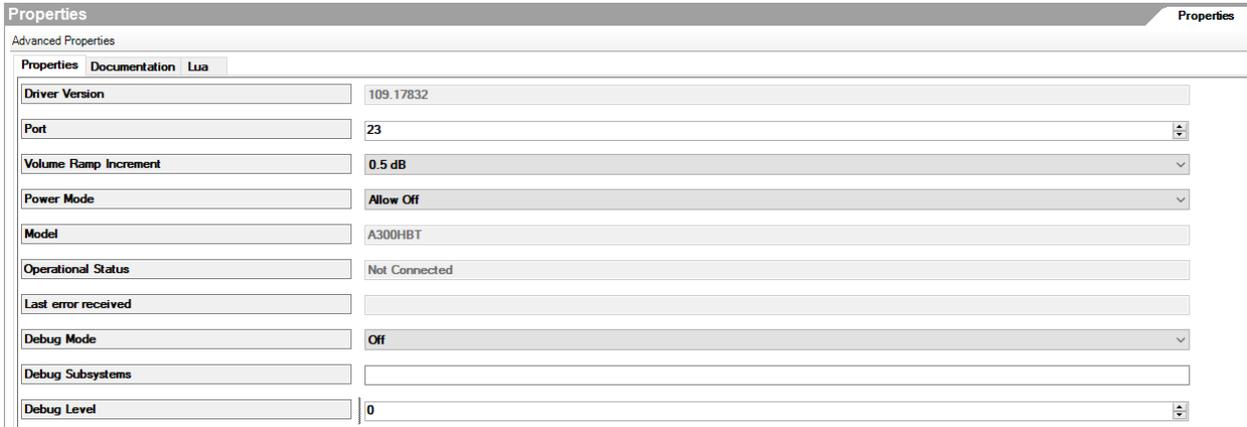


Figure 5: Driver Serial Connection

Now that the connections are established the driver properties should be populated with information from the amp the next time you start the Home Controller up.



Properties	
Advanced Properties	
Properties Documentation Lua	
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	
Debug Mode	Off
Debug Subsystems	
Debug Level	0

Figure 6: 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:

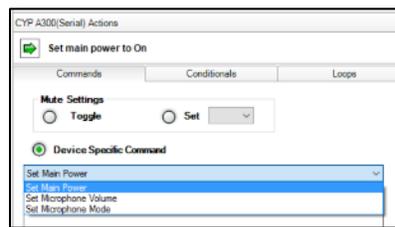
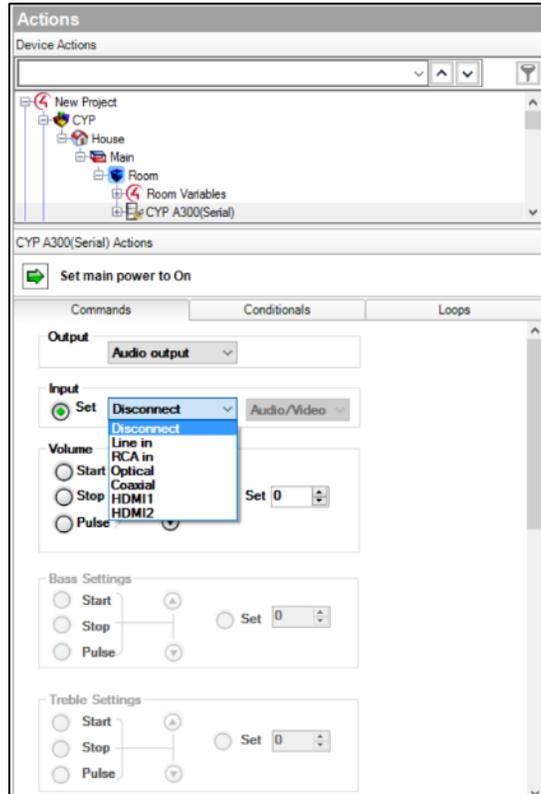


Figure 7: Driver Commands

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 7. Microphone volume ranges from 0-30. Microphone modes available are Off, Normal, Phantom and Line Mode.

Driver Variables

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

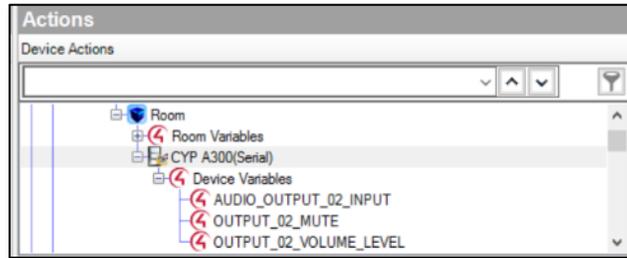


Figure 8: Driver Variables

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