



# AU-A300-HBT 2 Channel Digital AV Receiver

RTI Driver User Guide

Version 1.0

Driver developed by

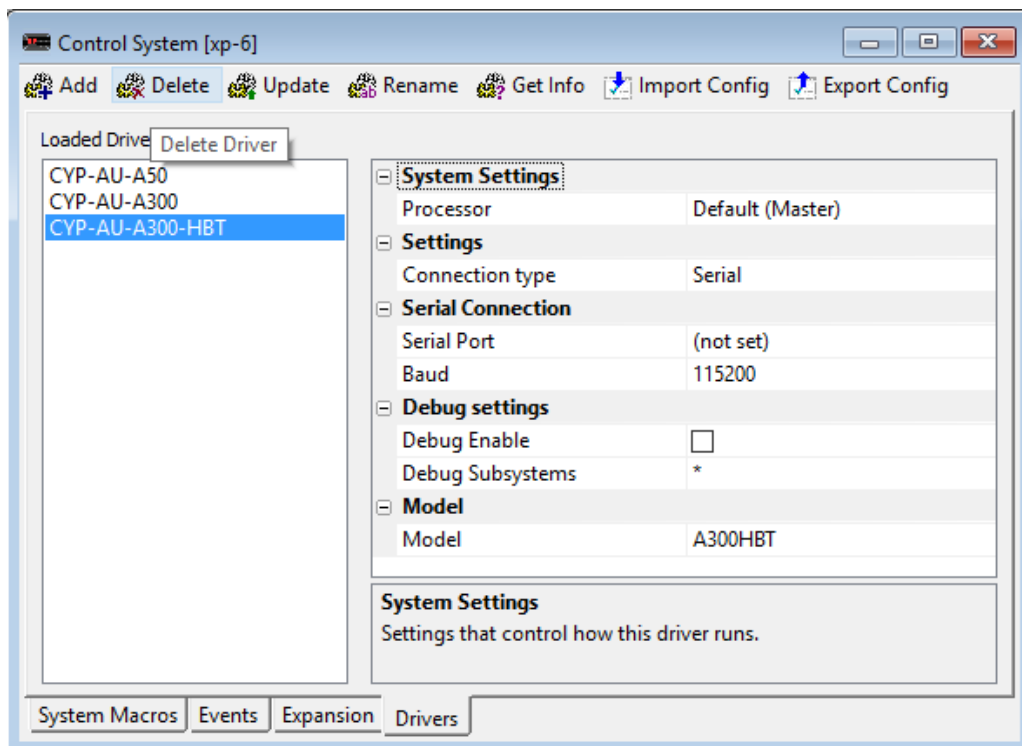


## Introduction

This driver has been designed to provide two-way control of the CYP AU-A300-HBT 2 channel AV receiver, via IP or RS232. It has been written and tested using CYP firmware version 1.0a.

## Driver Installation & Configuration

Open your RTI Integration Designer system file (or use the demo programming file entitled "CYP\_A50-300-HBT\_Demo.rti"). Select your XP series processor from the **System Workplace** window and choose the **Drivers** tab.



**Figure 1: Driver Properties**

If the driver does not appear in the **Loaded Drivers** list, select **Add** and choose to open the "A300-HBT.rtiDriver" file from the driver package.

The driver features a number of configuration properties that must first be completed:

| Section | Setting   | Parameters / Description                   |
|---------|-----------|--|
| System  | Processor | The XP-series processor running the driver |

|                   |                  |  |
|-------------------|------------------|--|
| Settings          |                  |  |
| Settings          | Connection Type  | Choose "Serial" or "TCP" as the connection type  |
| Serial Connection | Serial Port      | Choose the XP serial port to which the amplifier is connected                                    |
|                   | Baud             | Enter the baud rate to use for serial communication (by default, this is 115200)                 |
| TCP Connection    | IP Address       | Enter the IP address of the amplifier  |
|                   | Port             | Enter the TCP port number for communication with the amplifier (this will almost always be "23") |
| Debug Settings    | Debug Enable     | SUPPORT USE ONLY   |
|                   | Debug Subsystems | SUPPORT USE ONLY   |
| Model             | Model            | SUPPORT USE ONLY   |

**Table 1: Driver Properties**

**Note:** The Serial Connection or TCP Connection properties will be displayed depending on the chosen Connection Type.

## Driver Commands

Below is a table providing an overview of each command supported in the driver:

| Command        | Description  |
|----------------|--|
| Power          | Switches the amplifier on and off  |
| Switch source  | Switch the amplifier to a specified source input   |
| Adjust Volume  | The command "Up" and "Down" alter the volume by 0.5db, "Up Up" and "Down Down" alter it by 2.0db |
| Set Volume     | Set the volume to a specific value (0-100)   |
| Mute           | Switch mute on or off  |
| Switch HDMI    | Switches the HDMI source to HDMI or HDBaseT  |
| Switch HDBaseT | Switches the HDBaseT source to HDMI or HDBaseT   |
| Set EDID       | Sets the EDID mode   |
| Set IR Channel | Switches the IR channel  |

**Table 2: Driver Commands**

## Driver Variables

The driver features a number of variables, providing information about the status of the system.

| Variable                   | Description   |
|----------------------------|---|
| Connection Status          | A Boolean that will display either "Connected" or "Disconnected". If connecting via TCP the device will automatically disconnect 45 seconds after the last command is sent. The connection will be re-established when a command is invoked |
| Power Status               | A Boolean which will display either "On" or "Off"   |
| Source                     | The name of the currently selected source   |
| Source > LINE IN           | A Boolean which will display either "Selected" or "Unselected" for the LINE IN source   |
| Source > RCA IN            | A Boolean which will display either "Selected" or "Unselected" for the RCA IN source  |
| Source > OPTICAL           | A Boolean which will display either "Selected" or "Unselected" for the OPTICAL source   |
| Source > COAXIAL           | A Boolean which will display either "Selected" or "Unselected" for the COAXIAL source   |
| Source > eAudio            | A Boolean which will display either "Selected" or "Unselected" for the eAudio source  |
| Source > HDMI              | A Boolean which will display either "Selected" or "Unselected" for the HDMI source  |
| Source > HDBaseT           | A Boolean which will display either "Selected" or "Unselected" for the HDBaseT source   |
| Volume                     | The current value of the volume represented as a scale of 0 – 100   |
| Mute                       | A Boolean which will display either "On" or "Off"   |
| Output > HDMI              | The name of currently selected HDMI output  |
| Output > HDMI-> HDMI       | A Boolean which will display either "Selected" or "Unselected"  |
| Output > HDMI-> HDBaseT    | A Boolean which will display either "Selected" or "Unselected"  |
| Output > HDBaseT           | The name of currently selected HDBaseT output   |
| Output > HDBaseT-> HDMI    | A Boolean which will display either "Selected" or "Unselected"  |
| Output > HDBaseT-> HDBaseT | A Boolean which will display either "Selected" or "Unselected"  |
| EDID                       | The name of currently selected EDID mode  |
| EDID-> INT                 | A Boolean which will display either "Selected" or "Unselected"  |
| EDID-> EXT                 | A Boolean which will display either "Selected" or "Unselected"  |

|              |  |
|--------------|--|
| EDID-> HBT   | A Boolean which will display either "Selected" or "Unselected" |
| EDID-> HDMI  | A Boolean which will display either "Selected" or "Unselected" |
| IR Channel   | The name of currently selected IR channel                      |
| IR Channel 0 | A Boolean which will display either "Selected" or "Unselected" |
| IR Channel 1 | A Boolean which will display either "Selected" or "Unselected" |
| IR Channel 2 | A Boolean which will display either "Selected" or "Unselected" |
| IR Channel 3 | A Boolean which will display either "Selected" or "Unselected" |
| IR Channel 4 | A Boolean which will display either "Selected" or "Unselected" |

**Table 3: Driver Variables**