

# JBL Synthesis Driver

## Release Notes

Current Version: 1.0.4.01

## Introduction

This driver has been designed to provide two-way control of JBL Synthesis AVRs via TCP/IP and RS232. The models supported are:

- SDR-35
- SDR-38
- SDP-55
- SDP-58

The driver provides the following features:

- Source selection
- Transport controls for relevant sources
- Preset selection for relevant sources
- Volume and mute control
- Now playing metadata for relevant sources
- One-way commands for various settings:
  - Display brightness
  - Simulate RC5 IR Command
  - IMAX Enhanced
  - Treble Equalisation
  - Bass Equalisation
  - Room Equalisation
  - Dolby Volume and Leveller
  - Balance
  - Subwoofer Trim
  - Lipsync
  - Compression

- Sub Stereo Trim
- Zone 1 OSD
- Video Output Switching

## JBL Synthesis Configuration

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

This driver was tested with firmware version: 0.100.472.0x34313bd.

### Setup notes

**VERY IMPORTANT** - Before powering on, make sure the power voltage selection switch is in the correct mode.

#### **RS232**

If you are controlling the device via RS232 then this must be setup on the AVR: Menu > General setup > control and select **RS232**.

#### **IP**

If you are controlling the device via IP then this must be setup on the AVR: Menu > General setup > control and select **IP**.

#### **Subnet**

There is no way to set the AVR subnet (always on 255.255.255.0).

#### **Standby Mode**

In Order to power the device on while it is in standby mode please enable the following setting HDMI Bypass and IP. To do this go to Menu > HDMI Settings set "HDMI Bypass and IP" to "On".

## Driver Installation

A single driver file is included in the release package:

Driver File Name	Description
JBL_Synthesis_v1.0.4.01.tcm2	This file contains driver files to control the device.

The current version included is JBL\_Synthesis\_v1.0.4.01.tcm2.

## Adding to Accelerator

Open your existing TC2 System file in URC Accelerator and then import the JBL\_Synthesis\_v1.0.4.01.tcm2 file:

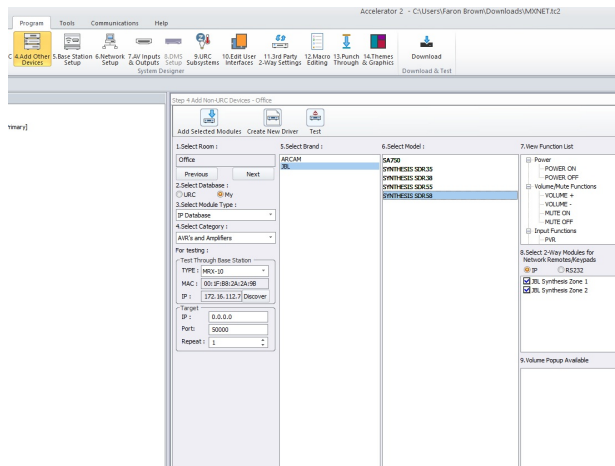
- Choose File -> Import TCM File
- In the Total Control Module Library Import window, locate the JBL\_Synthesis\_v1.0.4.01.tcm2 file and click **Open**.
- From the **Import Total Control Module window that appears**, choose **Import**.

Once the driver has been imported, close URC Accelerator and then reopen it to ensure that the driver has been picked up properly by the driver database.

## Adding the Driver

To add the driver:

- Select a room to place the driver
- Choose **Program -> 4. Add Other Devices**.
- Ensure **Select Database** is set to **My**.
- Ensure that **Select Module Type** is set to **IP Database**.
- Set Select Category to **AVR's and Amplifiers**.
- Choose **JBL** from the **Select Brand** list.
- From the **Select Model** choose the appropriate model for your device.
- Click **Add Selected Modules** to add the device to the room.



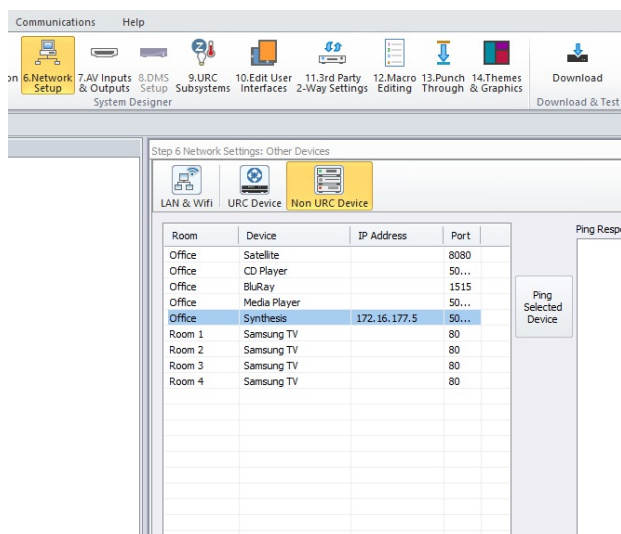
# Configuring the Driver

The driver must be configured to properly support your device.

## IP Address

The IP Address of the JBL Synthesis AVR must be provided to the driver.

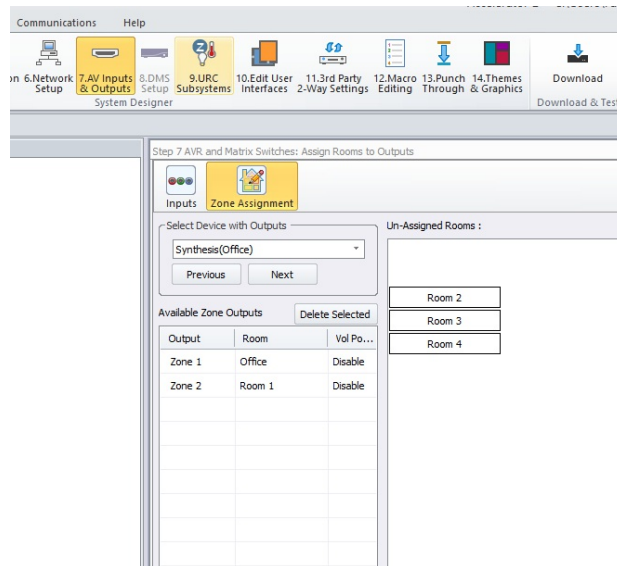
- Choose **Program -> 6. Network Setup.**
- Select **Non URC Device** tab.
- For each instance of the driver, provide the correct **IP address** in the table.
  - Note that the port should be set automatically but for reference the correct port is **50000**



## Zone and Input Assignment

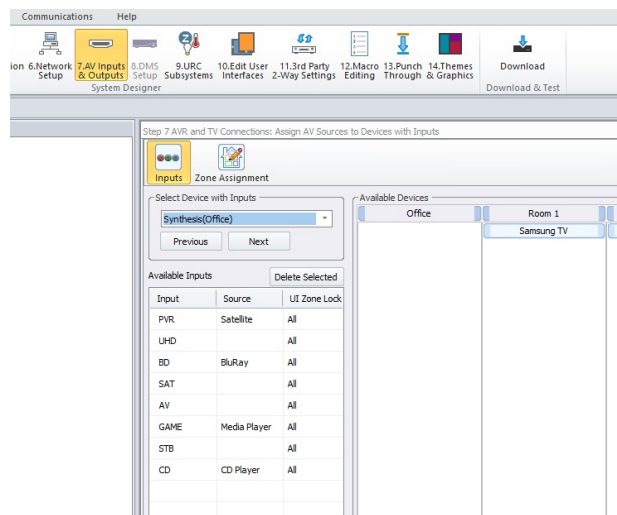
The JBL Synthesis AVR provides support for **2 zones** (unless the product is single zone only). These must be assigned to rooms in your Accelerator project.

- Choose **Program -> 7. AV Inputs & Outputs**.
- Select **Zone Assignment** tab.
- Drag rooms from the **unassigned rooms** window into the Room column of the **Available Zone Outputs** table.



Devices can also be assigned as inputs to the JBL Synthesis AVR:

- Choose **Program -> 7. AV Inputs & Outputs**.
- Select **Inputs** tab.
- Drag devices from the **Available Devices** window into the Source column of the **Available Inputs** table.



## Macros

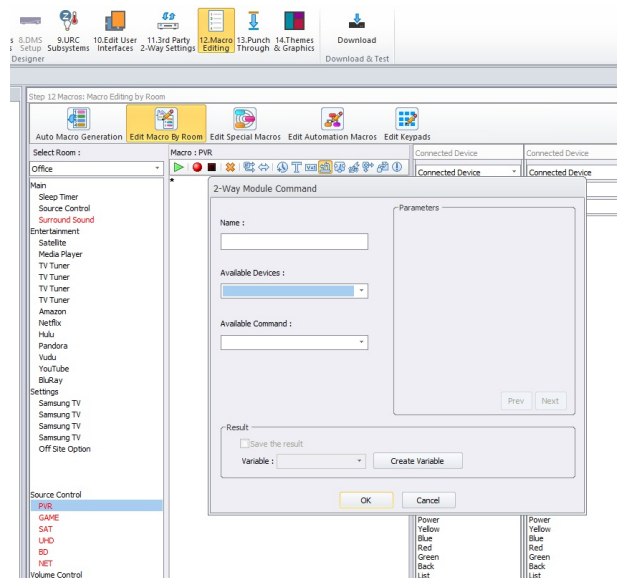
Ensure that system macros are generated for each instance of the driver by configuring **Program -> 12. Macro Editing** appropriately for your system.

## Commands

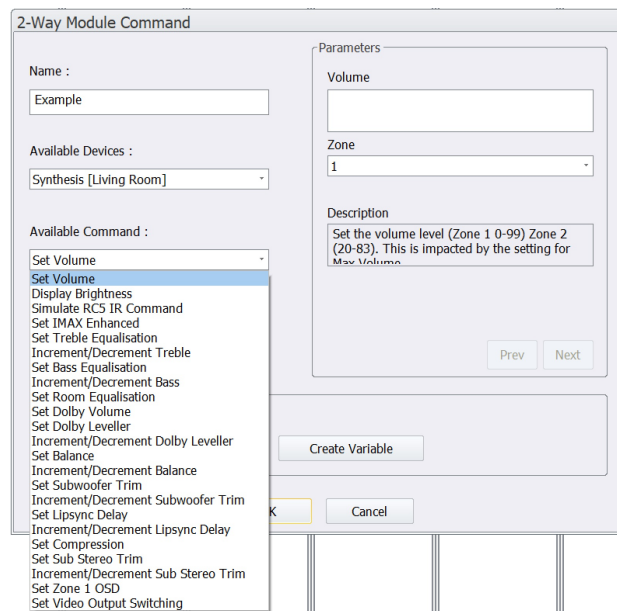
The following commands can be used to control your JBL Synthesis AVR device:

- Display Brightness
- Simulate RC5 IR Command
- Set IMAX Enhanced
- Set Treble Equalisation
- Increment/Decrement Treble
- Set Bass Equalisation
- Increment/Decrement Bass
- Set Room Equalisation
- Set Dolby Volume
- Set Dolby Leveller
- Increment/Decrement Dolby Leveller
- Set Balance
- Increment/Decrement Balance
- Set Subwoofer Trim
- Increment/Decrement Subwoofer Trim
- Set Lipsync Delay
- Increment/Decrement Lipsync Delay
- Set Compression
- Set Sub Stereo Trim
- Increment/Decrement Sub Stereo Trim
- Set Zone 1 OSD
- Set Video Output Switching

To add a command to an existing macro select the **Two-way module command** button from the toolbar under **Program -> 12. Macro Editing**:



Give your command a name and select the appropriate command from **Available Command** - see above for the commands available for each model.



Finally, select **OK** to add to your macro.

## Downloading the Driver

Once you have configured the driver using the steps provided above you can now download the revised system configuration to your URC base station.

## User Interfaces

The driver package includes pre-designed interfaces for the following devices:

- TRC-820
- TRC-1080
- TDC-7100
- TKP-7500
- TKP-7600
- TKP-5500
- Apple iPhone
- Apple iPad
- Android Phone
- Android Tablet