

**JOYNED**

AUDIO.  
NETWORK.  
TECHNOLOGY.

# XM2-EVK Getting Started Guide

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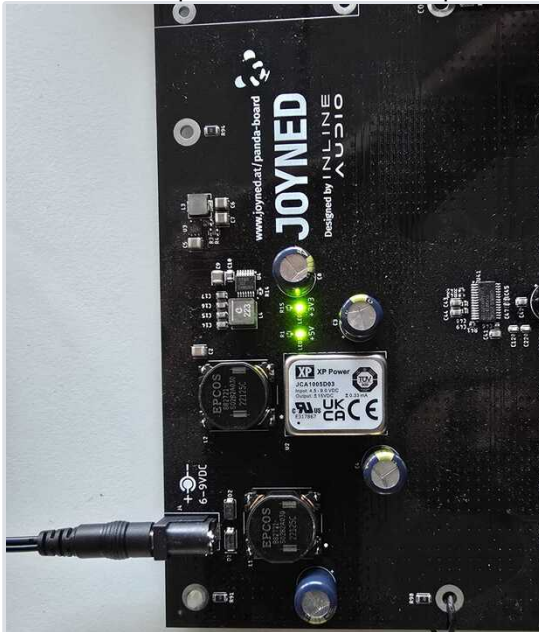
tools required:

- 2 Panda boards
- 3 ethernet cables
- 1 AVB switch
- Hive audio controller installer on (pc or mac or linux)

## Panda Board Setup Instructions

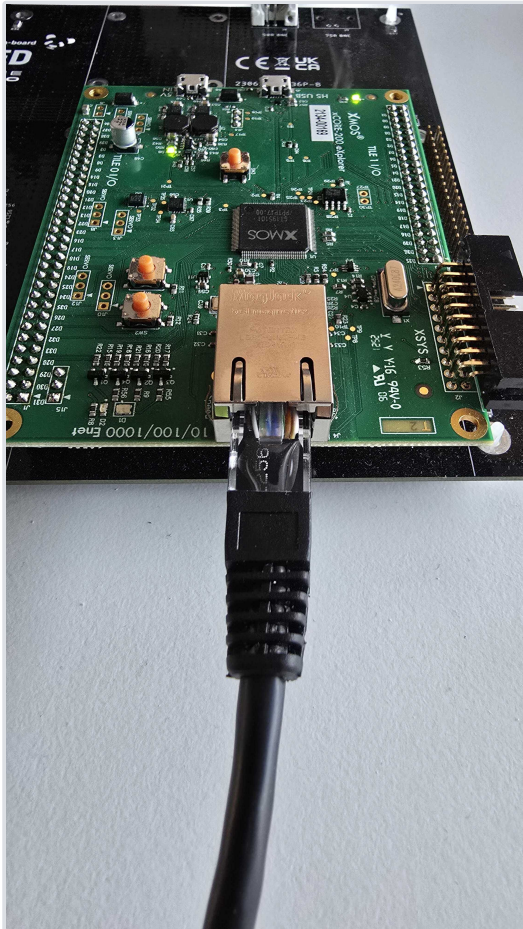
### 1. Connect the Hardware

- Connect each panda board with 9V power supplies provided to you (see Picture 1).



1 Picture 1: 9v power supply for Panda Board

- Connect each panda board with Ethernet cable with switch (see picture 2, 3)



2 Picture 2: AVB Ethernet to Panda



3 Picture 3: Avb Switch

- Connect your PC to the AVB switch using an Ethernet cable. just simple Ethernet port (see Picture 3)

## 2. Install Hive Audio Controller

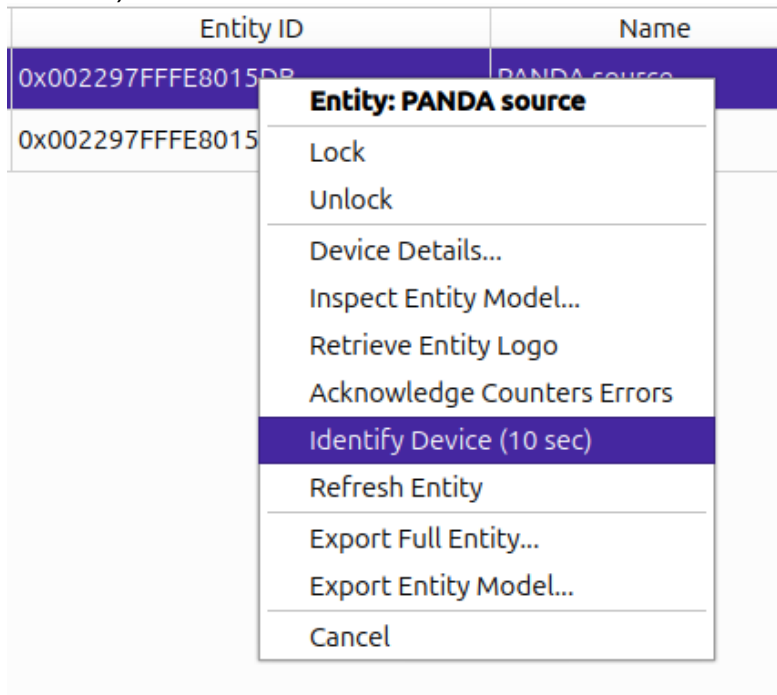
- Download and install the Hive Audio Controller from [Hive Download link](#)<sup>1</sup> .
- Install Hive

1. <https://avnu.org/news/new-version-of-milan-open-source-controller-released-hive-1-3-0/>

- Once installed, you will see both Panda boards listed in Hive (see Picture 5).

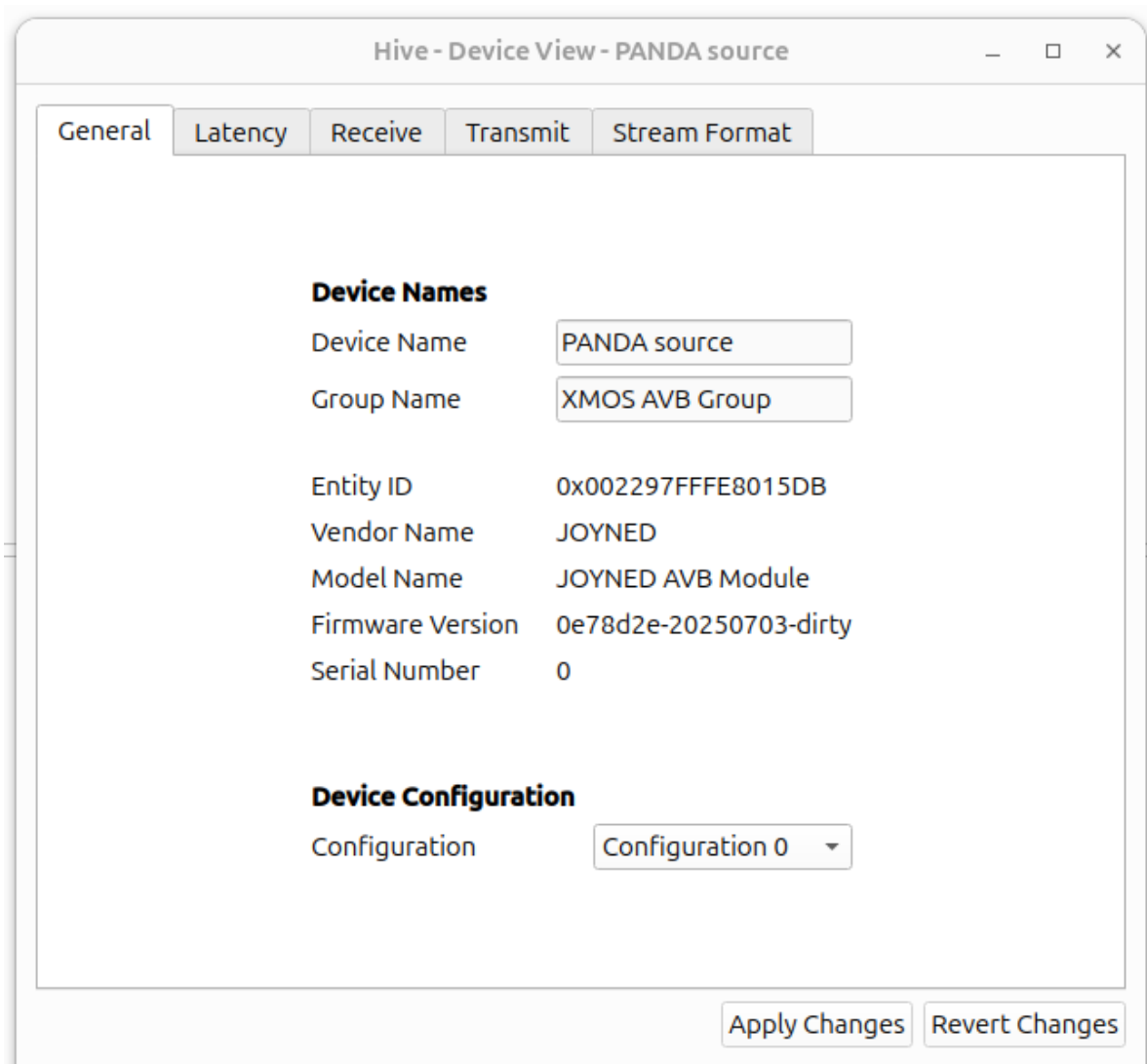
### 3. Identify device

- Click on The panda board with right click and choose identify device the respective board with start Led blinking and this is how you know that name belong to that board ( see Picture 6)



### 4. Customize your Panda

To change the name of the Board right click on the respective board and choose device details (see picture 7), you can change the name to what you like. (see picture 8)

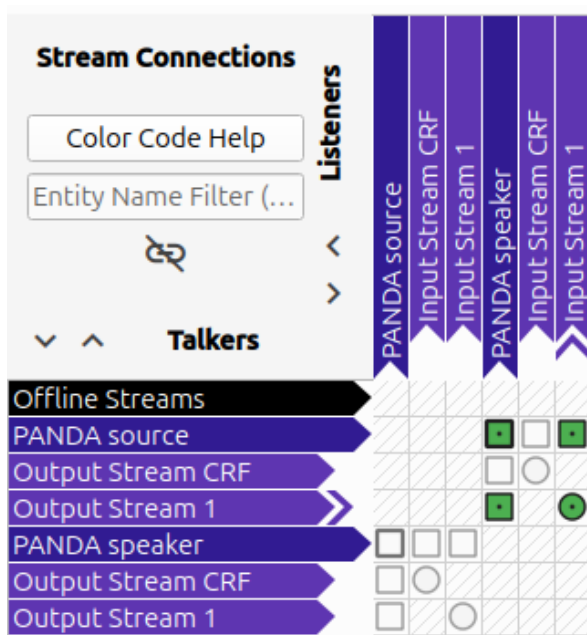


### 5. Adjust the clock source

- The Panda board connected to the speakers needs to have its clock source set to "Input Stream 1" to synchronize audio properly.
- Click on the relevant Panda board, navigate to the right-hand panel, select "Clock Domain," and choose "Input Stream 1" from the drop-down menu (see Pictures 6 and 7).

### 6. Create Connections and Verify Streaming

- In Hive, create streaming connections from the Panda source to Panda speaker.



- Once the connections are established successfully, a green circle with a black dot indicates that media streams are locked.

### 7. Enjoy the Music

- Your setup is now complete. Enjoy seamless audio streaming!

Feel free to reach out if you have any questions or need further assistance.