

Hardware Validation

After **programming the FPGA**, you can test the system:

1. Access the **Main tab**.
2. Click on **Serial Console**.
3. Set the correct baud rate (e.g., 115200 baud).
4. On the serial monitor, view the distance values sent by the **HC-SR04 via UART**.
5. If the data is not received correctly, **review the parameters** and connections in ChipInventor.

Now, you need to assemble a simple circuit that allows the connection between the distance sensor and the Dev Chip Board. You will need:

- **4.7k** ohm resistor;
- **Protoboard**;
- **Wires** for connection;

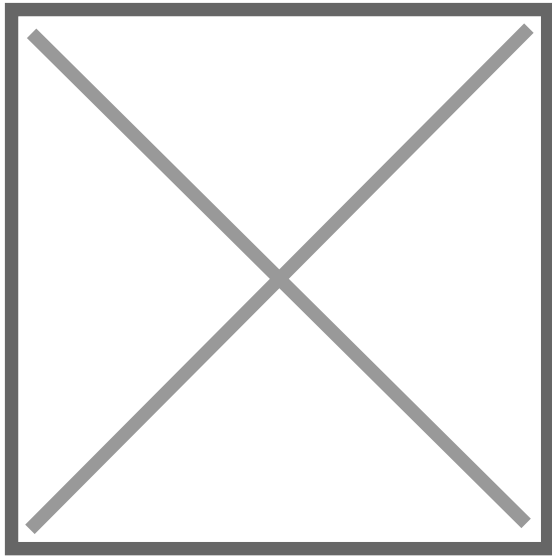
And your project should look like the following circuit:

image.png

Sensor Circuit

distance sensor testing.gif

Sensor Reading



Sensor Testing

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