

MagicJellyBean.org

December 2022

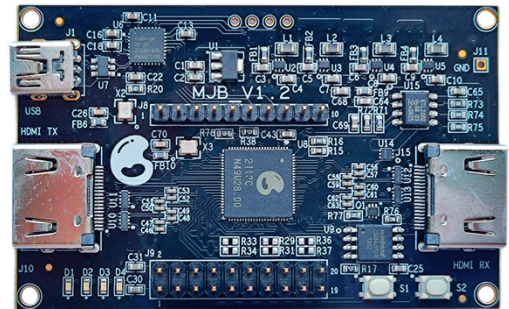


MagicJellyBean Is Here to Stay!

MagicJellyBean is an organization established to enable hobbyists, academic researchers and electronic enthusiasts with FPGA and microcontroller capabilities for embedded edge electronics projects. The intent is to create a community of like-minded individuals who can share ideas, projects and wisdom in the FPGA and microcontroller field through an affordable and easy to use platform.

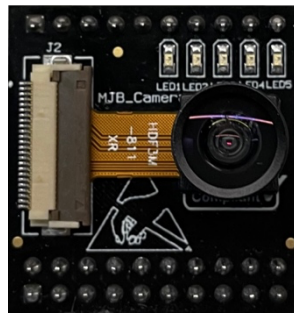
Flagship Featured V1.2 MJB Board

The V1.2 MJB board enables a seamless connection between programmable logic devices and embedded processors. It is compatible with a wide range of peripheral device standards, significantly reduces user costs, and can be widely used in industrial, communication, servo drive, and other fields.

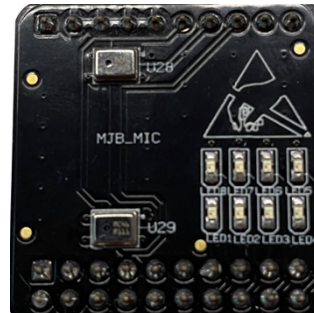


V1.2 MJB Board Accessories

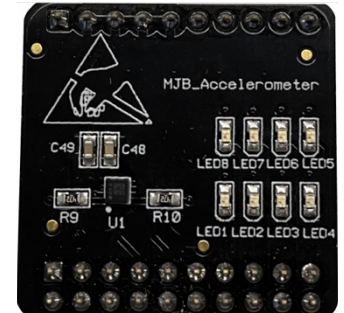
We are proud to offer three accessories to enjoy with the V1.2 MJB board. You can enjoy programming and testing the MJB camera, microphone, and accelerometer. Fully compatible and ready for various creative projects using the V1.2 MJB board.



MJB Camera



MJB Microphone



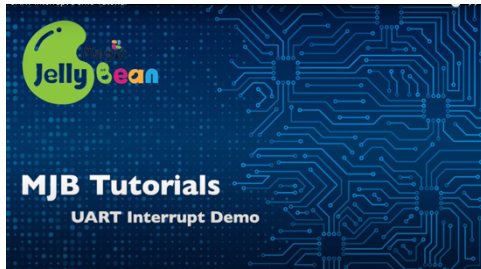
MJB Accelerometer

Backed By Powerful Free FPGA Software

Gowin EDA and MJB IDE are FPGA development environments powered by GOWIN Semiconductor providing design entry, code synthesis, place & route, bitstream generation, and programming for GOWIN FPGAs. Allows users to seamlessly edit their FPGA projects for any number of creative ventures.



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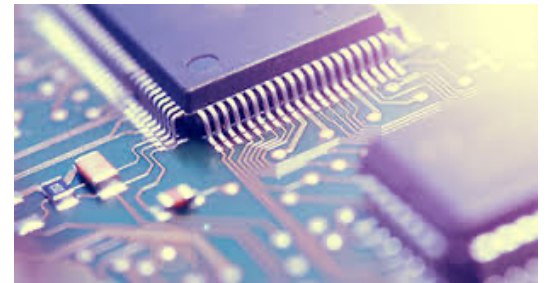


Demos and Tutorials to Get You Started

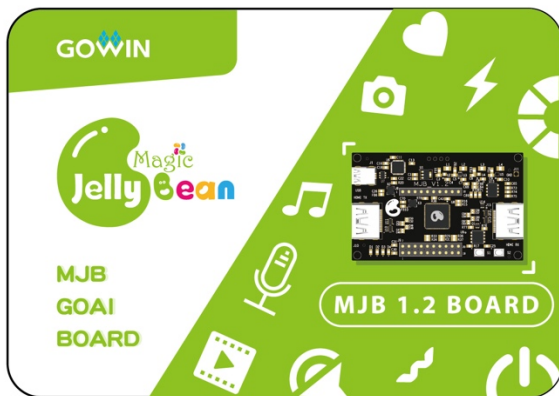
MagicJellyBean is geared towards anyone who is curious about the FPGA and Microcontroller world. Our demos and Tutorials will take you step by step into the FPGA design world. Before you know it, you will be compiling Verilog files and programming your MJB board to light up in different sequences.

University Programs

MJB is a partner and enabler of FPGA education for universities around the world. Involved with students on multiple levels of their learning journey. Anywhere from students who are just starting to dive into the world of FPGAs to students working on their final Capstone projects. As more students and universities work with MJB, the more student projects will be available for the public to explore and learn.



Three Levels of Experience to Enjoy MJB



Our focus will be catering to an array of designers. From those who are familiar with FPGA design and AI, to those who are curious about taking their first step into the AI and FPGA world. The first level focuses on the basics of training a model, introducing TensorFlow, and diving into pure AI learning. The second level goes a little deeper for the aspiring software engineer. It uses our free MJB IDE software which can deploy model inferencing and allows you to play with firmware and updating the C code. Finally, the third level is for the people who want to go into the hardware level. If you want to use the MPU or are looking to create your own MPU. This is where our free Gowin EDA Software comes in.

*MJB is the perfect place to connect with other enthusiasts.
We look forward to helping this community grow as we
add more hardware, software, and student projects.
Stay tuned for our next major update as MJB grows!*
