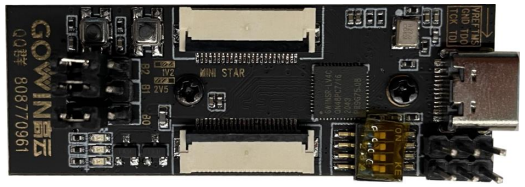
MagicJellyBean

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.

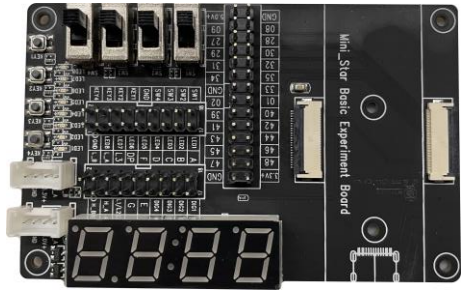


MiniStar Board

Low Cost FPGA+MCU Embedded Computer Board

- GOWIN GW1NS-4C µSoC FPGA
  - 4.6K LUT FPGA Fabric
  - ARM Cortex-M3 Embedded MCU
  - Embedded 256Kbit Flash
- High Speed Flex Connectors for GPIO and LVDS IO
  - Selectable IO Voltages
- USB-C to JTAG Programmer
- J-LINK Debugger Header
- 27Mhz Mems Oscillator
- 64-Mbit external SPI Flash
- 2 - Push Buttons, 2 – User LEDs
- Power LED

Buy Now Github Reddit



MiniStar Experiment Carrier

Take your MiniStar board to the next level with this fully compatible experimental board. Explore your programmable logic device to the limits!

- High Speed Flex Connectors to MagicStar
- 4 – Toggle Switches
- 4 – Push Buttons
- Four Digit Seven-Segment Display
- Three 0.1” headers
- 8 - LEDs

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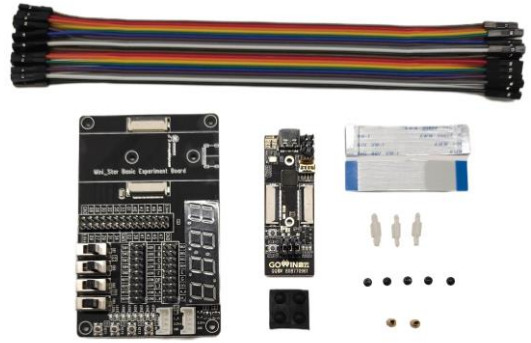

MiniStar Experiment Kit

Everything you need to start exploring the world of programmable logic devices. Comes with the MiniStar Embedded Computer Board, MiniStar Experiment Carrier, flex cables and prototyping wires.

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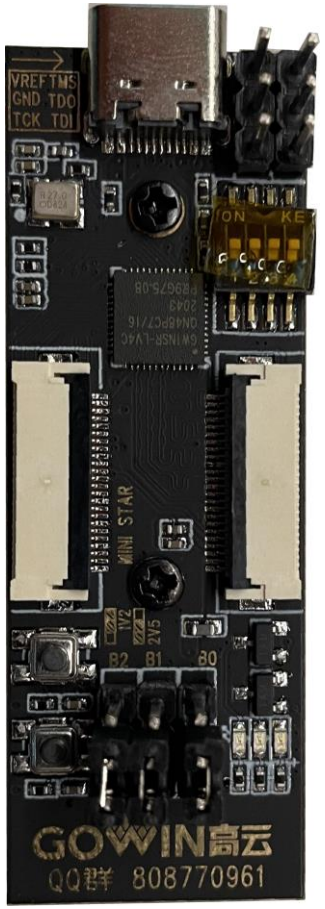
Featured Embedded µSoC FPGA Computer Boards



MiniStar 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.

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FPGA and Microcontroller Software

Gowin EDA Student Edition
(FPGA Development Software)

FPGA development environment providing design entry, code synthesis, place & route, bitsteam generation and programming for GOWIN FPGAs

Download

Student Version of Gowin EDA is license-free version with reduced features

Gowin GMD Student Edition
(MCU Development Software)

MCU development environment providing C/C++ firmware compilation, loading and debugging for GOWIN FPGA+MCU SoC FPGAs

Download

Student Version of Gowin EDA is license-free version with reduced features

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About Us

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Developer notes

- Slide 4 download link 1: https://drive.google.com/drive/folders/1lCN5LGNrJmQov_gWzd2o9VdP-WFYjeam?usp=sharing\
- Slide 4 Download link 2: https://drive.google.com/drive/folders/1DBQXg3YYJZKCnIAQ5HK-k8dYCcSMy6vi?usp=sharing (no files uploaded to this drive folder yet).
- Reddit link: https://www.reddit.com/r/magicjellybeanfpga/
- Github Link: https://github.com/magicjellybeanfpga/MiniStar
- Github discussions(forums link which should be used for the Github button) link: https://github.com/magicjellybeanfpga/MiniStar/discussions
- Github Issues link: https://github.com/magicjellybeanfpga/MiniStar/issues/
- Amazon MJB Buy now link: (Not live yet)