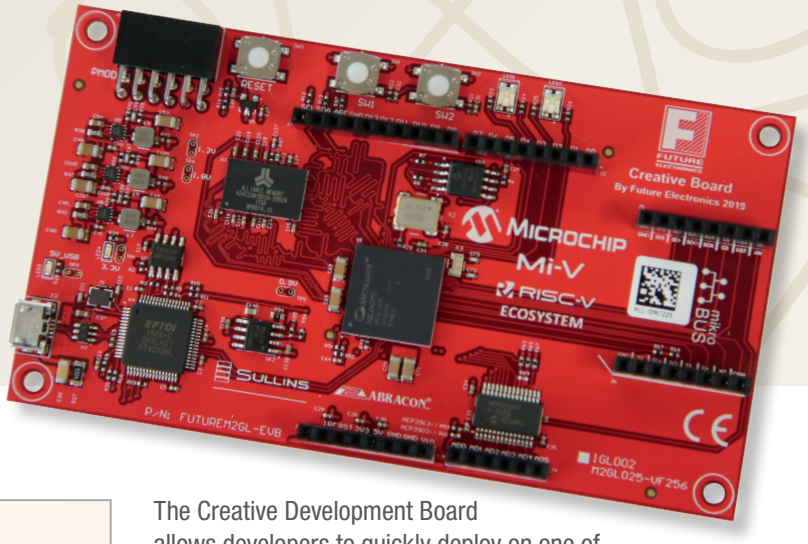
The Creative Board

LOOK AT WHAT IT CAN DO!

FUTURE ELECTRONICS CREATIVE DEMO

To enable the development of the Creative Board, Future Electronics has prepared the following demos for our customers.



Demos	Description
Mi-V Tic Tac Toe	Based on a Mi-V softcore processor design, play the classic Tic-Tac-Toe game by yourself or with a friend. This demo supports two touchscreen TFT from Adafruit (P1651 and P1947), and includes both a backlite control and a screensaver feature.
FreeRTOS	Based on a Mi-V softcore processor design, this demo features a simple three task LED blinking program running in a FreeRTOS v8.2.3 environment. This design integrates a Terminal UART, LEDs, pushbuttons, a timer and a DDR2 controller to help you experience FreeRTOS in a FPGA setup.
ADC Read - Terminal (uses RISC-V)	Based on a Mi-V softcore processor design, a reading from the ADC channel 0 or channel 2 will be echoed on a Terminal window on a host PC using the Avalanche's user pushbuttons.
Out of the box - Risk-V Blinky (Hello World!)	Out of the box demo. "Hello World!" text is sent through a Terminal connection at power-up or board reset. Terminal text is echoed afterward and board LEDs start blinking in a defined pattern. It provides a starting point to develop bare metal RISC-V applications.

The Creative Development Board allows developers to quickly deploy on one of the lowest cost FPGA platforms in the market. At the heart of the kit is a 25k logic element IGL002 or SmartFusion2 FPGA from Microchip, which offers more resources in low density devices with the lowest power, proven security and exceptional reliability.

Best in Class Features Include:

- Microchip IGL002 FPGA (M2GL025) or SmartFusion2 FPGA (M2S025)
- Microchip Step Down Converter LX7167
- Alliance DDR2 Synchronous DRAM 512Mbit
- Microchip 64Mbit serial flash SST26VF064B-104I/SM
- Microchip Analog Converter A/D TSSOP28 MCP3903-E/SS
- FTDI Interface USB to UART FT4232HL
- Sullins Arduino™ compatible expansion headers
- Sullins MikroBUS™ compatible expansion headers
- Sullins PMOD™ compatible expansion connector
- Users buttons and LED

https://github.com/Future-Electronics-Design-Center/Creative-Eval-Board