Open. Lowest Power. Programmable RISC-V Solutions.



www.mi-v.org



Mi-V RISC-V Ecosystem

The Mi-V™ ecosystem, provided by Microsemi and industry leaders, aims to increase adoption of the RISC-V ISA and Microsemi's soft CPU product family.



Design Tools

The Mi-V Ecosystem includes several design tools for use with Microsemi FPGAs and some for use with other RISC-V processors.



• SoftConsole IDE—Microsemi's free software development environment that enables the rapid production of C and C++ executables and includes GNU ARM Eclipse Plug-in, GCC compiler, and GDB debugger

SoftConsole

- Libero SoC design suite Microsemi's comprehensive, easy to use FPGA design suite
- Firmware catalog—includes all of the available drivers and is installed with Libero or available standalone
- Imperas virtual extendable platform kit

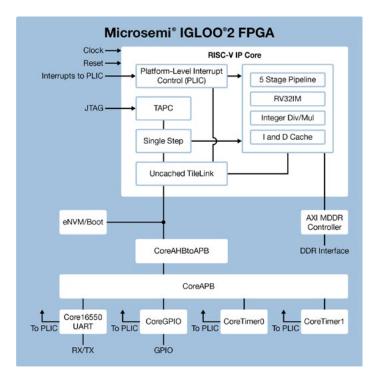


• antmicro Renode virtual platform



CPUs

32-bit integer machines with and without floating point



Operating Systems

Operating systems for RISC-V include the most popular commercial and open-source options.

Commercial Operating Systems for RISC-V





Open-Source Operating Systems for RISC-V







Boards

Low-cost and full-featured boards which run RISC-V cores are available from Microsemi and distribution partners.

Microsemi

- PolarFire Evaluation kit
- PolarFire Splash kit
- RTG4 Development kit







Future Electronics

- PolarFire Avalanche board
- IGLOO2 RISC-V Creative board





Arrow Electronics

PolarFire Everest board



Solutions

Microsemi posts solutions for RISC-V on the GitHub site to provide easy access for designers as well as regular updates of solutions.

github.com/RISCV-on-Microsemi-FPGA

Solutions provided on GitHub include:

• FreeRTOS demo and source files



• µc/OS sample design



- Sample projects for all boards
 Hello world, blinky, etc.
- RISC-V bare metal boot loader
- RISC-V hardware abstraction layer



• SoftConsole IDE sample workspace

SoftConsole

Design Support

Microsemi technical support team and design services team are prepared to support RISC-V designs.

For Technical Support

- Web: soc.microsemi.com/mycases
- Phone (NA): 800.262.1060
- Phone (Int'l): +1 650.318.4460
- Email: soc_tech@microsemi.com

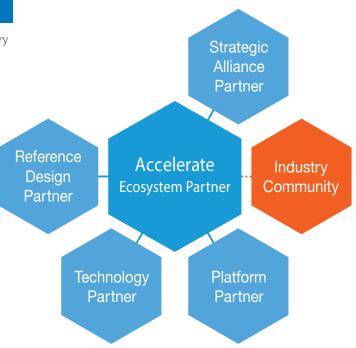
For Design Services

www.microsemi.com/product-directory/fpga-soc-design/4182-fpga-design-services-solutions

Accelerate Partner Program

Microsemi's Accelerate program gathers an ecosystem of industry partners to facilitate collaboration amongst leading silicon, IP, systems, software, and design experts to deliver validated solutions that expedite time to market for end-customers and time-to-revenue for partners. Microsemi's Mi-VTM Embedded Ecosystem, aims to increase adoption of RISC-V ISA and Microsemi's soft CPU product family.

To learn about becoming a Mi-V Ecosystem Partner, visit http://www.microsemi.com/form/86-accelerate-ecosystem-partner-program.



Microsemi is continually adding new products to its industry-leading portfolio.

For the most recent updates to our product line and for detailed information and specifications, please call, email, or visit our website.

Toll-free: 800-713-4113

sales.support@microsemi.com

www.microsemi.com



Microsemi Corporate Headquarters

One Enterprise, Aliso Viejo, CA 92656 USA Within the USA: +1 (800) 713-4113 Outside the USA: +1 (949) 380-6100 Fax: +1 (949) 215-4996 Email: sales.support@microsemi.com www.microsemi.com

©2018 Microsemi Corporation. All rights reserved. Microsemi and the Microsemi logo are registered trademarks of Microsemi Corporation. All other trademarks and service marks are the property of their respective owners. Microsemi Corporation (Nasdaq: MSCC) offers a comprehensive portfolio of semiconductor and system solutions for aerospace & defense, communications, data center and industrial markets. Products include high-performance and radiation-hardened analog mixed-signal integrated circuits, FPGAs, SoCs and ASICs; power management products; timing and synchronization devices and precise time solutions, setting the world's standard for time; voice processing devices; RF solutions; discrete components; enterprise storage and communication solutions, security technologies and scalable anti-tamper products; Ethernet solutions; Power-over-Ethernet ICs and midspans; as well as custom design capabilities and services. Microsemi is headquartered in Aliso Viejo, California and has approximately 4,800 employees globally. Learn more at www.microsemi.com.

Microsemi makes no warranty, representation, or guarantee regarding the information contained herein or the suitability of its products and services for any particular purpose, nor does Microsemi assume any liability whatsoever arising out of the application or use of any product or circuit. The products sold hereunder and any other products sold by Microsemi have been subject to limited testing and should not be used in conjunction with mission-critical equipment or applications. Any performance specifications are believed to be reliable but are not verified, and Buyer must conduct and complete all performance and other testing of the products, alone and together with, or installed in, any end-products. Buyer shall not rely on any data and performance specifications or parameters provided by Microsemi. It is the Buyer's responsibility to independently determine suitability of any products and to test and verify the same. The information provided by Microsemi hereunder is provided "as is, where is" and with all faults, and the entire risk associated with such information is entirely with the Buyer. Microsemi does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other IP rights, whether with regard to such information itself or anything described by such information. Information provided in this document is proprietary to Microsemi, and Microsemi reserves the right to make any changes to the information in this document or to any products and services at any time without notice.