

Technology and Product Development: Focus on Advanced Electronics



Science. Engineering. Business.

Triple Ring Technologies is a team of experienced engineers, physicists, and chemists who know how to collaborate. Our contract services span early-stage applied research, product development, pilot manufacturing, and entrepreneurial business development. These services **reduce risk, reduce costs, and shorten time to market.**

Understand. Simplify. Accelerate.

Triple Ring offers development services for complex system architectures, real-time embedded systems hardware and software, high-speed data acquisition and analysis platforms, DSP design, FPGA programming, and massively parallel processor array (MPPA)-based solutions. Our custom OEM hardware and software solutions and applications engineering accelerate the deployment of systems from development platforms to final products.

As a certified applications provider for the Nethra Am2000™ line of MPPA products, Triple Ring can provide custom solutions to all of your hardware and software needs for PCIe-protocol ATCA or μ TCA systems and components. Our portfolio of modular templates accelerates the design, fabrication, and testing of customized designs, allowing you to get to market faster.

Medical device projects are managed under design control when appropriate, with full support for U.S. 510(k), PMA, and CE mark regulatory certifications.

Ideas. Prototypes. Production.

Triple Ring has offices serving Silicon Valley and Boston. The headquarters in Newark, CA are housed in a 41,000 sq. ft. facility that includes dedicated laboratories for electronics, optics, radiation source development, and mechanical prototyping; a machine shop; client office space; and a pilot manufacturing facility. Our quality management system is compliant with ISO 13485.

What We Deliver

Engineering Services

- System architecture for computationally intensive systems
- Embedded real-time systems architecture
- High-speed board design, layout, and testing
- Fabrication and assembly of complete systems
- Analog, digital, and mixed signal PCB's
- DSP design and algorithm development
- Mixed signal ASIC design

Modular Customizable Components

- AMC module with MPPA and PCIe Data-Fabric Interface
- ATCA Base-Fabric and PCIe Data-Fabric Hub
- AMC Carrier with PCIe Data-Fabric Interface
- Data acquisition and ADC board

Applications Engineering

- FPGA design and programming
- Control plane software
- GUI and application layer software
- C/C++ programming
- Linux, QNX, eCos, RTOS
- Matlab
- Applications development for Nethra Am2000™ line of MPPA products

U.S. citizens are available for projects with workforce restrictions.