

FAB S and LAB S

Innovation at Anaren



Innovation never takes a day off at Anaren, Inc. Now celebrating its 50th anniversary as a successful upstate New York manufacturer and employer of approximately 1,100 people, the company continues to advance its engineering expertise and manufacturing processes that improve performance and cost for its customers. Anaren develops many unique products, and over the years has built solid relationships with its customers on a foundation of trust and the spirit of innovation inherent to the culture.

Anaren is well-known for its innovative Xinger[®] line of hybrid couplers, directional couplers and power dividers. The Xinger was developed in the 1990s during the wireless boom. Anaren engineers stacked multiple layers of stripline circuits separated by nonconductive Teflon[®] and achieved an order-of-magnitude reduction in size and eliminated bulky RF connectors and interconnects—even the heavy outer cases traditionally used in the industry. To date, the company has shipped well over a billion of these Xinger components to customers throughout the world.

Anaren was formed in the late 1960s, when the U.S. government had an urgent need for technology that could detect, identify and counter radar-guided munitions. Two Syracuse engineers decided to leverage their research and expertise in microwave technology and formed Anaren in the beautiful Finger Lakes region of upstate New York. The founders, Hugh A. Hair and Carl W. Gerst Jr., began Anaren Microwave (aptly named after their wives Anna Marie and Renee) to develop and manufacture instantaneous frequency measurement receivers in a small facility with just a few employees in Syracuse. Despite the company's diminutive size at the time, they caught the attention of defense prime contractors like Hughes, Northrop Grumman and Raytheon, who became some of the first customers and remain customers today. Anaren was careful to focus on innovative, highly engineered, high quality solutions that allowed the company to grow and prosper in the defense industry. With that same focus on innovation, Anaren successfully expanded into the satellite communications and commercial wireless markets.

Anaren's major facilities are located in East Syracuse, N.Y., Salem, N.H. and Littleton, Colo. They all collaborate to meet the needs of their customers, developing the

right solution using the best expertise in the company. In most cases, Anaren's technology incorporates proprietary engineering, materials-processing techniques and products that are manufactured in high or low volume (depending on complexity) using current, automated manufacturing in ITAR-compliant, ISO-certified facilities. A wide range of building-block technologies, packaging and substrates for RF/microwave applications—including ceramics (LTCC, thick film, precision thick film), stripline solutions, ferrites and antenna beamforming technology—are core to the company.

In the early 1980s, Anaren expanded its facilities to an 80,000 square foot corporate headquarters in East Syracuse. Another expansion of the East Syracuse facility occurred in 2006 to a 160,000 square foot location. The company's facilities in Salem and Littleton will also be expanding in the fall of this year. The Salem location will be expanding to support the increase in order demand of the LTCC technologies. The Littleton facility will expand to include an additional 10,000 square feet of production area. This update is a response to the recent contract awards and the company's commitment to invest in its manufacturing processes and infrastructure. Recent contract awards include support of the Long Range Discrimination Radar (LRDR) system and RF beamforming assemblies supporting the U.S. Navy's new AN/SPY-6(V) Air and Missile Defense Radar (AMDR). Anaren is considered a strategic partner by several leading defense electronics OEMs through its vertical integration of manufacturing processes and engineering expertise.

Anaren has aggressively pursued automated manufacturing and testing, accelerated product development and marketing throughout the years. Their industry leading manufacturing capabilities include building their own high frequency, high-density circuit boards and ceramic products, and opening an international presence with an operation in Suzhou, China. These core competencies, coupled with Anaren's innovative culture, position them to succeed in new markets, including building a strong foothold in the Internet of Things as they look to the future.

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