

FAB S and LAB S

Mercury Systems' Phoenix Advanced Microelectronics Center



A few years ago, Mercury Systems started their state-of-the-art Advanced Microelectronics Centers (AMC) in Hudson, N.H. and West Caldwell, N.J., offering world-class RF/microwave manufacturing and integration capabilities. Now, they have invested in Phoenix to create their U.S. Manufacturing Operations around surface mount technology to provide a global manufacturing capability. Defense prime contractors now have a secure and trusted supplier of digital microelectronics from a Defense Microelectronics Activity (DMEA)-accredited facility for design, assembly, test and broker services.

The company's new AMC facility is a 115,000 square foot design and manufacturing center of excellence for advanced microelectronic solutions addressing the defense industry's most rigorous performance and quality standards. With 15,000 sq. ft. of class 100,000 clean room space, the facility manufactures EW subsystems, embedded processing modules, high-density secure memory, military-grade solid-state storage and custom built-to-specification microelectronics. The facility has fully automated SMT pick and place capabilities with inline stencil printing, 3D automated solder paste inspection and 10-zone reflow oven, plus 01005 capability. There are also 3D automated inspection and 2D/3D X-ray inspection stations. The products built in the new center are integrated by customers into highly sophisticated computing systems and then deployed in a variety of military applications such as electronic warfare, radar,

platform management and command, control, communications and intelligence.

To ensure a seamless and rapid transition from prototype sampling to full-rate production, engineering resources skilled in advanced design and simulation techniques are co-located within the AMC. Recognizing the importance of long-term supply continuity for prime contractors, supply chain security and trust are assured throughout the complete product lifecycle. As a commitment to industrial security, design and manufacturing, records are actively protected with a cybersecurity program modeled after the Center for Internet Security critical security controls. They have a secret facility, ITAR control and certifications for AS9100, ISO9001, ISO10012, MIL-PRF-38534/535, SMT J STD 001 and IPC610.

Congressman Ruben Gallego recently helped dedicate the facility, as the expansion represents Arizona's commitment to driving economic growth and prosperity through the creation of sustainable, high-quality jobs. Mercury's Advanced Microelectronics Centers are a key component for the realization of the company's next-generation business model. Through affordable and highly differentiated sensor chain solutions, defense prime contractors can simultaneously secure their supply chain operations, minimize technical risk and meet program schedule and budget demands.

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