

**3D PLUS USA, Inc.** 26

3D PLUS is a world leader in advanced, high-density 3D microelectronic products and bare die wafer level stacking technology that offer the high reliability, high performance, and very small size demanded by today's and tomorrow's electronics.

910 Auburn Court, Fremont, CA 94538  
510-824-5591; [www.3d-plus.com](http://www.3d-plus.com)

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**Advance Reproductions Corporation** 57

Advance Reproductions Corporation is a leading supplier of superior, large-area and optical photomasks and phototools. Innovative by nature, the company strives tirelessly to collaborate with its customers on their complex requirements. Its seasoned staff of experts and its creative approach to each and every request are what set Advance Reproductions apart. The company welcomes the challenge of working with unique requirements and complex patterning requests as well as offering prototypes and high-volume patterning.

100 Flagship Drive, North Andover, MA 01845  
978-685-2911; [www.advancerepro.com](http://www.advancerepro.com)

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**Advanced Substrate Microtechnology Corporation** 24

ASMC is a leader in producing etched thick-film substrates with complex design requirements of 1mil line/space. It builds substrates on Al<sub>2</sub>O<sub>3</sub>, BeO, AlN, zirconia, glass, 12-in.Si wafers, and other specialty materials with various types of conductors, resistors, and passive components. ASMC works with customers to optimize their design and reduce manufacturing cost. Processes and procedures comply with ISO9000 and MIL-PRF-38534. All products are manufactured in class10K equivalent clean rooms. ASMC provides a 100% turnkey solution from one location in North Carolina. Having in-house capabilities enables ASMC to provide the shortest cycle time for urgent customer orders and new prototype designs.

7860 Thorndike Road, Greensboro, NC 27409  
336-285-5955; [www.advancedsubstrate.com](http://www.advancedsubstrate.com)

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**Analog Devices, Inc.** 32

ADI is focused on being a single comprehensive partner for aerospace and defense systems providers. As a leading US-based designer and manufacturer of high-performance integrated circuits for more than 50 years, ADI has been at the forefront of innovation in signal processing, new processes, heterogeneous integration, and advanced packaging. ADI is uniquely positioned in the market with a portfolio that includes MEMS, high-speed converters, transceivers, and RF and microwave technology. Added to that is deep system-level knowledge, broad expertise in hi-rel modules/subsystems, and the capability to secure silicon all the way to data output.

3 Technology Way, Norwood, MA 02062  
781-461-3676; [www.analog.com](http://www.analog.com)

**asicNorth, Inc.** 23

asicNorth provides comprehensive VLSI design services to the semiconductor industry, and offers a wide range of innovative and well-managed solutions, technical and efficient skill sets, and flexible engagement models.

291 Hurricane Lane, Ste 100, Williston, VT 05495  
704-584-7959; [www.asicnorth.com](http://www.asicnorth.com)

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**Aurora Semiconductor LLC** 16

Aurora Semiconductor is an American-owned, US-based, trusted pure-play foundry specializing in high-complexity 3D multichip module (MCM) manufacturing, DER services, and related specialty die preparation.

990 16<sup>th</sup> Street North, Saint Petersburg, FL 33716  
727-235-6589; [www.aurorasemi.com](http://www.aurorasemi.com)

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**BAE Systems** 48

BAE Systems' advanced electronics technologies enable next-generation capabilities in electronic warfare; C4ISR (Command, Control, Communications and Computing); and intelligence, surveillance, and reconnaissance. Research and development in the electronic systems sector focuses on digital receiver, phased array, mixed signal, RF photonics, radiation-hardened electronics, system-on-a-chip, ASIC (application-specific integrated circuit) solutions, digital-electronic attack, and communications technologies. BAE Systems is a global company engaged in the development, delivery, and support of advanced defense and aerospace systems in the air, in space, on land, and at sea, with operations across five continents and partners in more than 100 countries.

PO Box 868 Mer 24-1216, Nashua, NH 03061  
603-385-3864; [baysystems.com/es](http://baysystems.com/es)

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**Battelle Memorial Institute** 1

Keep clone or counterfeit electronic components out of your supply chain with Battelle Barricade, a non-destructive anti-counterfeiting technology, providing fast, economical authentication of ICs and microchips from trusted and untrusted sources. No requirement for chip design modification or insertion of technology into the manufacturing process of a trusted source.

505 King Avenue, Columbus, OH 43201  
800-201-2011; [www.battelle.org](http://www.battelle.org)