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FOR IMMEDIATE RELEASE

## Crane Aerospace & Electronics Develops Beamforming Backplane Products for Space Applications

*Crane A&E's strong heritage of mmWave Space qualified products meeting stringent size and weight requirements with leading RF performance.*

**CHANDLER, Ariz.** – June 18, 2024 – Crane Aerospace & Electronics, a segment of Crane Company (NYSE:CR), has developed a family of beamformer backplane products for space applications utilizing its proprietary Multi-Mix® multi-layer laminate technology.

“We are integrating arrays of radiating elements with associated feed networks and RFICs into a single module for space applications throughout the Microwave and mmWave frequency range,” said Jim Logothetis, Director of Engineering, Microwave Solutions. “Fusion bonding is used to increase circuit density, minimize layer count, and reduce the required footprint, which results in the smallest footprint and highest RF performance for these challenging applications.”

The backplane layers contain a series of N-way power dividers and combiners along with matched impedance feed networks to implement the interconnection of any number of beams to any number of elements. Also contained within the layers are DC power planes and radiation shielding. Beamformer backplane/radiator assemblies are typically composed of 15 to 30 laminate layers, with antenna radiating elements on one surface, and RFICs, digital circuitry and blind mate connectors on the opposing surface.

Visit Crane A&E's [Microwave](#) web page to learn more about Crane A&E's MMX technology and leading beamforming platform of products on our new [Microwave Product Finder](#) page.

### About Crane Aerospace & Electronics

Crane Aerospace & Electronics delivers innovative systems, components, and services for commercial aircraft, defense platforms, and space systems which have proven reliability in mission-critical environments. Products and services are organized into six integrated solutions: Electrical Power Solutions, Fluid Management Solutions, Landing Systems, Microwave Solutions, Cabin Systems and Sensing Components & Systems. For more information, visit [www.craneae.com](http://www.craneae.com), or follow [@CraneAE](#) on X.

### About Crane Co.

CABIN SYSTEMS • ELECTRICAL POWER SOLUTIONS • FLUID MANAGEMENT  
LANDING SYSTEMS • MICROWAVE SOLUTIONS • SENSING & POWER SYSTEMS

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Crane Company has delivered innovation and technology-led solutions to its customers since its founding in 1855. Today, Crane is a leading manufacturer of highly engineered components for challenging, mission-critical applications focused on the aerospace, defense, space and process flow industry end markets. The Company is comprised of two strategic growth platforms, Aerospace & Electronics and Process Flow Technologies, as well as the Engineered Materials segment. Crane has approximately 7,000 employees in the Americas, Europe, the Middle East, Asia and Australia. For more information, visit [www.craneco.com](http://www.craneco.com).

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