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Photo available at: [www.stratedge.com/gan-device-article-photo.png](http://www.stratedge.com/gan-device-article-photo.png)

## StratEdge White Paper, “Eutectic Die Attach Optimizes High Power GaN Devices,” is Now Available

*Details how to reduce chip-to-package junction temperature to improve GaN chip efficiency and reliability*

Santee, Calif — August 6, 2020 — StratEdge Corporation, leader in the design, production, and assembly of high-frequency and high-power semiconductor packages for microwave, millimeter-wave, and high-speed digital devices, announces that the white paper, “Eutectic Die Attach Optimizes High Power GaN Devices,” is now available on the StratEdge website at <http://stratedge.link/gan-devices-article>. The article explains how the package in which the gallium nitride (GaN) device is attached, and the method used to attach the device to the package, can optimize the device’s efficiency, performance, and reliability.

The image shows a screenshot of a web article page. On the left, there is a sidebar with a 'FEATURE ARTICLE' header, a small portrait of Casey Krawiec, and the article title 'Eutectic Die Attach Optimizes High Power GaN Devices'. The main content area on the right features the StratEdge logo at the top, followed by the text 'NEW ARTICLE' in large, bold letters. Below this, the article text begins with a large 'G' and discusses GaN devices, their applications, and the challenges of high-power operation. The text is partially obscured by a blue graphic element at the bottom of the page.

“The success of the package’s performance is dependent on the base material used, the quality of the package construction, and the attachment process. By creating a package environment that reduces chip-to-package junction temperatures, GaN chip efficiency and reliability can be improved,” explained Casey Krawiec, vice president of global sales at StratEdge. “StratEdge

research shows that thermal dissipation can be further maximized by optimizing the die-attach assembly process.”

The paper “Eutectic Die Attach Optimizes High Power GaN Devices,” by Casey Krawiec, details how StratEdge’s post-fired ceramic package with a copper-molybdenum-copper (CMC) base, and its proprietary eutectic die attach method, results in a near void-free attachment that reportedly reduces junction temperatures by 20 degrees Celsius as compared to standard assembly methods using ceramic packages of alternate construction.

The paper is available in the July 2020 issue of *Microwave Product Digest*, and on the StratEdge website at <http://stratedge.link/gan-devices-article>.

For more information, contact StratEdge at [info@stratedge.com](mailto:info@stratedge.com), or visit our website at [www.stratedge.com](http://www.stratedge.com).

### **About StratEdge**

[StratEdge Corporation](#), founded in 1992, designs, manufactures, and provides assembly services for a complete line of high-frequency and high-power semiconductor packages operating from DC to 63+ GHz. StratEdge offers post-fired ceramic, low-cost molded ceramic, and ceramic QFN packages, and specializes in packages for extremely demanding gallium arsenide (GaAs) and gallium nitride (GaN) devices. Markets served include telecom for 5G, VSAT, broadband wireless, satellite, military, test and measurement, automotive, clean energy, and down-hole. All packages are lead-free and most meet RoHS and WEEE standards. StratEdge is ITAR registered and an ISO 9001:2015 certified facility located in Santee, California, near San Diego.

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