

DIAMOND S Y S T E M S

June 2022 Customer Newsletter

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Back to Embedded World!

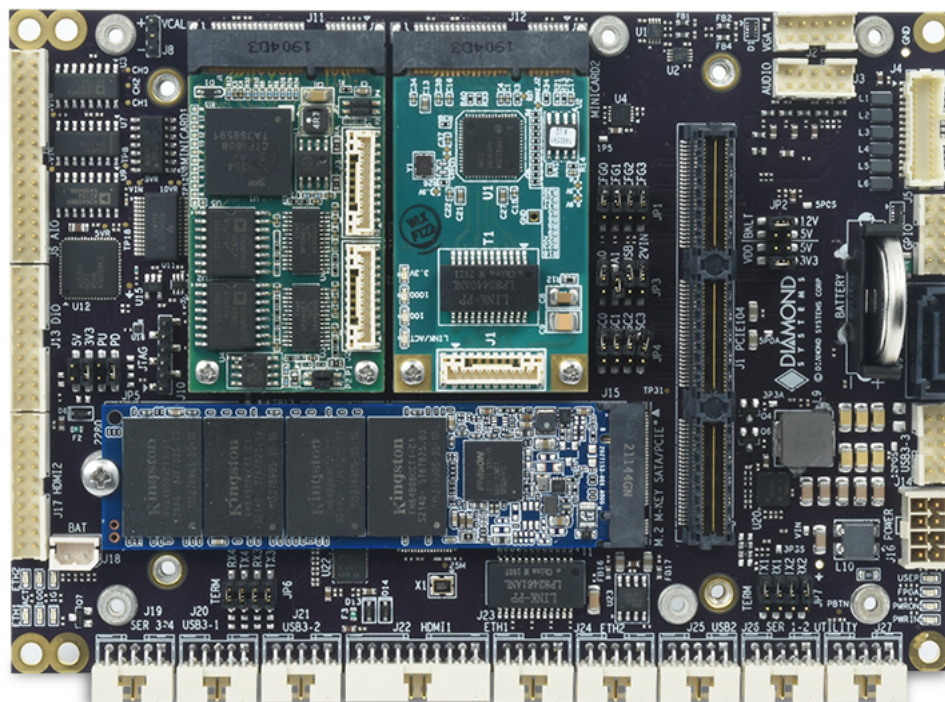
We were in Nuremberg, Germany from June 21 through June 23 to exhibit at the Embedded World trade show once again. Here's a preview of some of the newest products we've been working on that were on display in our booth. More in-depth information on these new products will be provided in future communications.

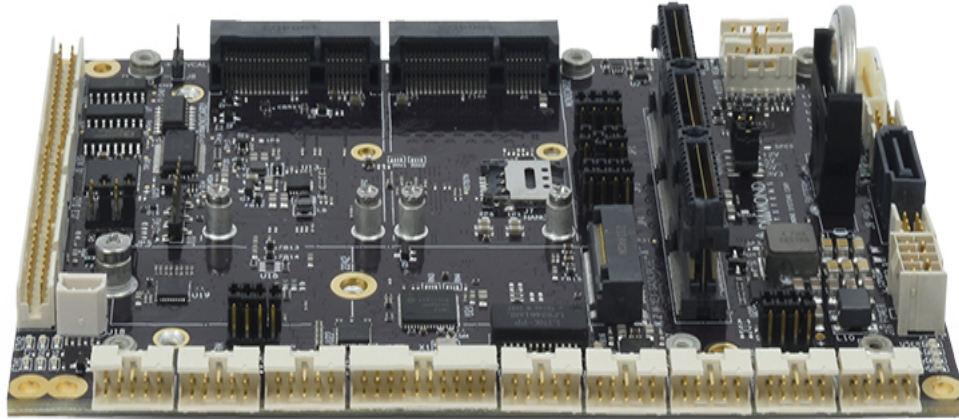


JASPER COM Express Carrier

Our new **Jasper** is a 3.5 inch form factor (4.00 x 5.75") board that works with COM Express Type 6 Compact and Basic modules. It features dual PCIe/USB minicard sockets, M.2 2242/2280 Flash socket, PCIe/104 expansion socket, optional integrate data acquisition, and rugged design with thicker PCB and latching connectors. Jasper is available as a carrier board or as a complete SBC with an 11th generation Core i7 COM (11865MRE) COM Express module. Jasper is designed to work with almost any COM Express type 6 module without requiring BIOS modifications. It is perfect for applications requiring high performance, a high degree of I/O expansion, and long life. Jasper will be available for shipment around August-September 2022.

Learn more about Jasper here: <https://www.diamondsystems.com/products/jasper>





The most popular I/O connectors on Jasper are positioned along the front edge, supporting direct board-to-board connections for more compact and rugged systems.

GEODE Quick-Ship Expansion-Ready Rugged Computer System

Our new **Geode** rugged system is tough on the outside and precious on the inside. The enclosure is IP67 rated and designed to withstand MIL-STD-202G shock and vibration levels. A new 80 watt power supply provides isolation plus MIL-STD-461, 704, and 1275 compliance. The inside utilizes our new Jasper COM Express carrier and is available with an 11th generation Core i7 COM (11865MRE) and up to 96GB RAM. Geode features a direct board-to-board (B2B) mating system for its I/O connector board that eliminates most cables. The connector board has built-in expansion connectors enabling easy I/O expansion with minicards and PCIe/104 modules installed on Jasper. The entire system is designed to support rapid, easy customization to reduce NRE charges and delivery leadtimes, plus keep costs and minimum order quantities down by using standard enclosures and cables instead

of custom ones. Geode will be available for ordering around September 2022 (depending on the availability of Jasper and customer configuration details).

Learn more about Geode here: <https://www.diamondsystems.com/products/geode>



[GEODE rugged mission computer](#)

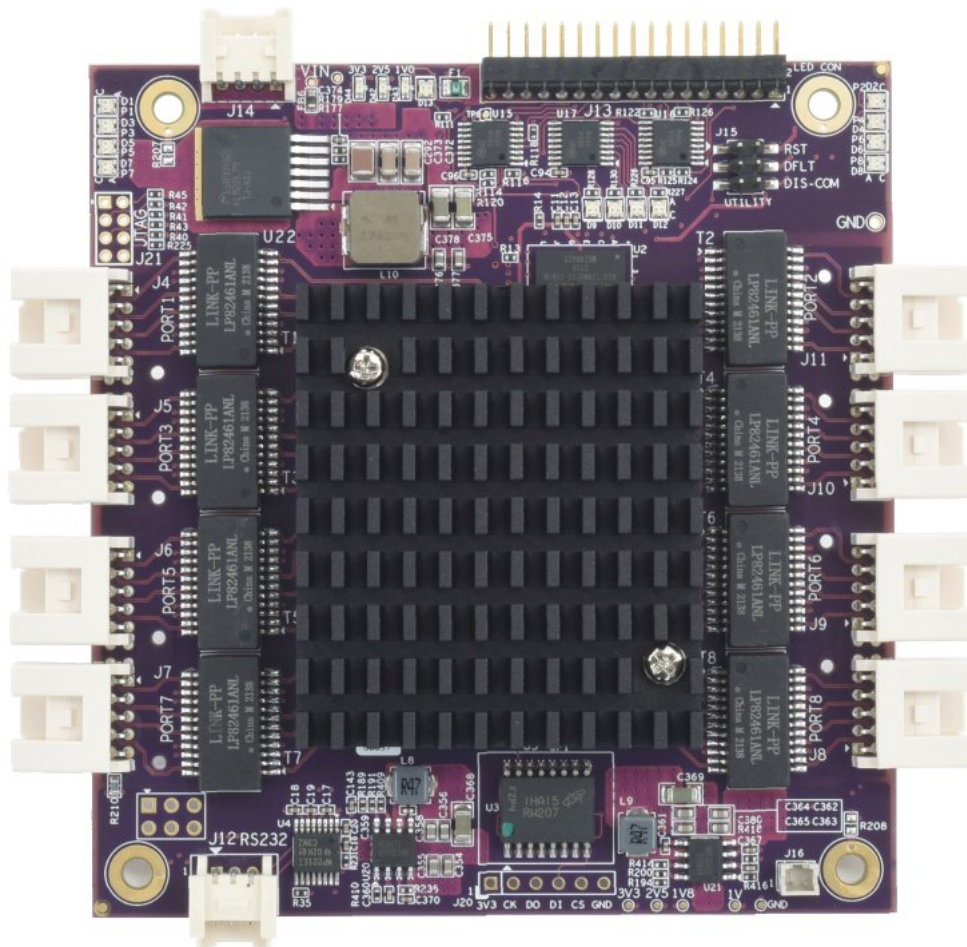


Internal construction showing B2B connection between Jasper COM carrier and connector board

EPS-8130 ETHERNET SWITCH NOW SHIPPING!

Our highly popular [EPS-8100](#) 8-port Ethernet switch in PC/104 form factor was halted due to the unavailability of the power supply components on the board. We redesigned the board and relabeled it [EPS-8130](#) (heat sink version) and [EPS-8130-XT](#) (heat spreader version). The replacement board is now shipping. The form and functionality are exactly the same as the original. The only noticeable difference is a slight change in the heat sink shape of EPS-8130. (The heat spreader is the same one used on EPS-8100-XT.) We have a very limited number of EPS-8100 / -XT units available for customers who need time to make a change to the new models. [Contact sales for pricing and availability.](#)

Visit the EPS-8130 web page here: <https://www.diamondsystems.com/products/eps8130>



The new EPS-8130 is a direct replacement for the previous EPS-8100.

NEW COMPANY BROCHURE

Our new brochure is now available. Find it at the top of our product overview page: <https://www.diamondsystems.com/products/>

The brochure highlights some of the many industries and applications in which customers use our products. We hope to add yours to our list soon.

The team at Diamond Systems



June 2022

For over 30 years Diamond Systems has been delivering embedded computing boards and systems to customer in a variety of industries around the globe. During this time, our products and services have been utilized in virtually every industry and region around the world. Our specialties are:

- ◆ Compact, rugged, and I/O rich designs
- ◆ Nvidia Jetson carrier boards and systems
- ◆ Managed Ethernet switches with 1G and 10G speeds
- ◆ x86 single-board computers and I/O
- ◆ Cost-effective rugged systems
- ◆ Custom solutions based on our areas of technology expertise

While our standard product offerings fill a wide range of needs effectively, our custom solutions service takes embedded computing to the next level by delivering low minimum quantity, perfect-fit solutions drawing on our experience, expertise, and global supply chain to help our customers achieve better performance and competitiveness.

Global Value Chain

Diamond's extensive global supply base allows us to take advantage of a wider range of design and manufacturing expertise, utilize the latest manufacturing equipment and methods, and gain access to far higher production capacity than companies who try to do it all in house. We are able to meet varying customer needs ranging from small volume or ITAR compliance up to high volume, cost optimized design and manufacturing. Diamond serves as the solution provider, bringing appropriate talent, services, and suppliers together to deliver the best solution for your project, without the limitation of reliance on captive resources.

The products and solutions shown here are a sampling of our overall offering. Please visit our website to learn more or contact us directly: sales@diamondsystems.com



Photo: Teledyne FLIR DoFense



Rugged Ethernet switch used in robot



Rugged SBC used in ATR system



NVIDIA Jetson carrier used in pharmaceutical manufacturing



NVIDIA Jetson systems used in mobile security and crop harvesting



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