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Zhenghai Group and Rohm have inked a joint venture agreement to establish a new power module business. Dubbed “HAIMOSIC”, it will be founded in China in December 2021. Shanghai Zhenghai Semiconductor Technology Co., Ltd. (Zhenghai Semiconductor) of the Zhenghai Group will own 80% and Rohm 20%.

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TALK TO US

NVIDIA and Mavenir Tap L&T Technology to Accelerate Adoption of AI-on-5G Platform

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Hailo Enabling the Move to Next Levels of Autonomous Driving

The artificial intelligence (AI) chip industry is heating up, with huge investments being poured into a lot of startups this year. But according to Hailo CEO Orr Danon, there are not a lot of companies that are delivering a really game-changing solution that can be productized.

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Future Horizons Ltd, • 44 Bethel Road • Sevenoaks • Kent TN13 3UE • England
Tel: +44 1732 740440 • Fax: +44 1732 740442
e-mail: mail@futurehorizons.com• http://www.futurehorizons.com/
Affiliates in Europe, India, Israel, Japan, Russian, San Jose California, USA

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The XVF3610 is an updated voice processor for smart home applications, based on the same Xcore.ai platform as previous products. This platform is designed with sufficient compute and memory for AI at the edge applications, plus a powerful vector coprocessor.

This means we can do more work on the signal to make it better, and increase the amount of tail length in the echo canceller to get rid of more echo," XMOS CEO Mark Lippett told EE Times Europe. "It's essentially a better version of the algorithms by virtue of having more resources to execute."

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HAIMOSIC will develop, design, manufacture, and sell power modules employing silicon carbide (SiC) power devices, with the aim of creating a power module business suitable for traction inverters and other applications in new energy vehicles.

"The new company will develop, mass-produce, and sell power modules equipped with Rohm's SiC chips," said Travis Moench, senior director of sales at Rohm Semiconductor USA, in an interview with Power Electronics News/EE Times Europe.

Neuromorphic Developers Partner to Integrate Sensor, Processor

SynSense and Prophesee are partnering to develop a single-chip, event-based image sensor integrating Prophesee's Metavision image sensor with Synsense's DYNAP-CNN neuromorphic processor. The companies will collaborate on design, development, manufacture and commercialization of the combined sensor-processor, aiming to produce ultra-low power sensors that are both small and inexpensive.

"We are not a sensor company, we are a processor company," Dylan Muir, SynSense's senior director of global business development, algorithms and applications, told EE Times. "Because we're looking at low-power sensor processing, the closer we can put our hardware to the sensor, the better. So partnering with event-based vision sensor companies makes a lot of sense."

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AI is already transforming many industries across the globe. When combined with the power of 5G networks, the two technologies will enable powerful new use cases in a quick, secure, and cost-effective manner.

NVIDIA's AI-on-5G platform is a unified platform that brings together developments at the edge to accelerate the digital transformation of enterprises across all industries. 5G provides the underlying connectivity for billions of devices, extending AI's reach to all connected objects and enabling new use cases and new markets. AI-on-5G is supported by a large ecosystem of partners offering a range of GPU-optimized applications and by NVIDIA SDKs, toolkits, and APIs.

Hailo Enabling the Move to Next Levels of Autonomous Driving

The artificial intelligence (AI) chip industry is heating up, with huge investments being poured into a lot of startups this year. But according to Hailo CEO Orr Danon, there are not a lot of companies that are delivering a really game-changing solution that can be productized.

Danon says you'll see many good things in PowerPoint presentations, "…but where can you order a product that actually works and gives you something that you didn't have before?"

Many companies are showing ideas that look good—but to bring it all the way down in software and hardware and still maintain the very good levels of performance and power consumption is a very challenging task.