Avnet Silica to Focus on Artificial Intelligence and Deep Learning at Vision 2018

Avnet Silica to display imaging solutions and related technologies with its silicon partners Xilinx and ON Semiconductor

Brussels, Belgium, 22nd October 2018 – Avnet Silica, an Avnet company (Nasdaq: AVT), has announced details of its presence at Vision, the world's leading trade fair for machine-vision applications, which is being held at the Messe Stuttgart in Germany, from 6 – 8 November, 2018. Avnet Silica will be presenting a series of advanced technology demonstrations in Hall 1 on Stand 1C82, in conjunction with two of its leading suppliers: Xilinx and ON Semiconductor.

At Vision, the Avnet Silica stand will showcase AI and deep learning technologies, and will include six key demonstrations:

- Building upon Xilinx's state-of-the-art DeePhi solutions for optimised and accelerated deep-learning, the demo showcases a system that offers breakthrough performance with best-in-class energy efficiency combined with low latency and re-configurability which is required for edge inference solutions such as object detection, face recognition, segmentation and video analytics.

- Xilinx Machine Learning Acceleration on Alveo™, which enables developers to optimise and deploy accelerated machine-learning inference utilizing Xilinx Alveo Data Center accelerator cards or cloud based environments. The solution is based on the Xilinx xDNN (Deep Neural Network) processing engine – a high-performance energy-efficient DNN accelerator that outperforms many common CPU and GPU platforms.

- The highly flexible Denali-MC HDR video/still image-processing platform from Pinnacle Imaging Systems. The system demo runs on a Xilinx Zynq 7000 FPGA with an ON Semiconductor AR0239 sensor and achieves a combination of highest possible dynamic range, while compensating for HDR motion artefacts.

- The Avnet Silica AI-accelerated multi-camera development platform that speeds development of computer-vision, AI and machine-learning designs. The system offers a complete imaging solution connecting multiple cameras to a Xilinx Zynq UltraScale+ MPSoC development platform.

- Targeting cloud-based surveillance applications this demo showcases Skreen's Personalised Streaming Video Engine running on Xilinx Alveo accelerator cards, as well as on AWS EC2 and Nimbix NX5 cloud services. Using a modular architecture, the Skreens Interactive Experience Engine uses patented Interactive Multi-Layering technology to deliver real-time, encoded video and interactive content to any output incorporating machine learning overlays into video-intensive products and services.

- The final demo is based around the XGS12000 image sensor from ON Semiconductor for industrial imaging applications. Simplifying and accelerating time-to-market for new camera designs, the sensor can enable a single camera design that supports multiple resolutions as well as different pixel designs with only minor modifications being required.

"We are using Vision 2018 to showcase the very latest in next-generation AI and machine learning technology," said Alexander Friebe, Supplier Line Manager at Avnet Silica. "With the unique end-to-end ecosystem, and working very closely with leading partners like Xilinx and ON Semiconductor, Avnet Silica is continually looking to bring the latest imaging technologies to customers building advanced solutions for industrial markets."

To learn more, Avnet Silica invites Vision 2018 attendees to check out these demos by visiting Avnet Silica in Hall 1, Stand 1C82.

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About Avnet

From idea to design and from prototype to production, Avnet supports customers at each stage of a product's lifecycle. A comprehensive portfolio of design and supply chain services makes Avnet the go-to guide for innovators who set the pace for technological change. For nearly a century, Avnet has helped its customers and suppliers around the world realize the transformative possibilities of technology. Learn more about Avnet at: www.avnet.com.

About Avnet Silica

Avnet Silica is the European semiconductor specialist division of Avnet, one of the leading global technology distributors, and acts as the smart connection between customers and suppliers. The distributor simplifies complexity by providing creative solutions, technology and logistics support. Avnet Silica is a partner of leading semiconductor manufacturers and innovative solution providers over many years. With a team of more than 200 application engineers and technical specialists, Avnet Silica supports projects all the way from the idea to the concept to production. Avnet Silica is a regional business unit of Avnet, (NASDAQ: AVT) with European headquarters in Belgium (Avnet Europe Comm. VA). For more information, visit www.avnet-silica.com

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