

Avnet Silica's HoriZone RA 'proof-of-concept' development solution brings real-time IoT sensor data securely into the Microsoft® Azure cloud

The fully integrated kit combines cloud-ready Renesas RA EK-RA6M3 board with multi-sensor Arduino Shield and Secure Element

Brussels, Belgium, 29th October 2020– Avnet Silica, an Avnet company (NASDAQ: [AVT](#)), today launched the HoriZone RA development kit, which is designed to enable 'proof-of-concept' for edge-to-cloud Internet of Things (IoT) applications requiring secure communications. Powered by Renesas Advanced (RA) microcontrollers for secure IoT endpoints and edge devices, the easy-to-use kit delivers superior security features for Resource Constrained Embedded Systems (RCES) connected to Avnet's IoTConnect® Cloud Platform based on Microsoft® Azure cloud.

The Avnet Silica turnkey multi-sensor solution is highly scalable, providing a seamless path from proof-of-concept to project through to deployment, including all the required building blocks. The kit includes sensors for humidity, temperatures, ambient light, air quality and air pressure, plus microphone, digital accelerometer, digital gyroscope, and inductive proximity sensor for positioning information.

The board integrates several components from Renesas, including the RA RA6M3 microcontroller, which is suitable for IoT applications that require TFT, Ethernet, security, large embedded RAM, and USB High Speed (HS). Also included are the ISL88014 voltage supervisor and ISL80102 synchronous boost converter for power management. Out of the box, engineers will quickly start developing IoT endpoint and edge devices for a broad range of applications, including industrial and building automation, metering, healthcare, and home appliances.

“Our RA Family of microcontrollers delivers on performance with all the advanced security capabilities and features needed for IoT applications,” said Roger Wendelken, Senior Vice President of Renesas' IoT and Infrastructure Business Unit. “These include our Secure Crypto Engine IP with NIST's Cryptographic Algorithm Validation Program certifications, Arm TrustZone® for Armv8-M, and tamper detection.”

“IoT growth has increased embedded design complexity exponentially,” said Juerg Siegenthaler, Manager 3rd Party Management Avnet Silica. “IoT devices are complex, and with shortening project timelines, the HoriZone cloud-ready platform has all the necessary building blocks that offers designers a ready-made and highly scalable solution for developing new IoT use cases quickly.”

The [HoriZone RA development kit](#) is shipping now from Avnet Silica in all EMEA markets.

Avnet Silica will host 2 webinars introducing the HoriZone RA kit and focusing on the question of how to integrate high-end security efficiently and cost-effectively into an MCU-based IoT device. <https://www.avnet.com/wps/portal/silica/resources/training-and-events/event/horizone-of-iot/>

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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

About Avnet

Avnet is a global technology solutions provider with an extensive ecosystem delivering design, product, marketing and supply chain expertise for customers at every stage of the product lifecycle. We transform ideas into intelligent solutions, reducing the time, cost and complexities of bringing products to market. For nearly a century, Avnet has helped its customers and suppliers around the



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Media Contact

Anja Woithe
Senior PR Manager Avnet EMEA
Anja.woithe@avnet.eu
+49 (0) 8121 774 459