

Press release

EBV Elektronik's design support capabilities help bring NaBi Solo, an innovative long-life tracker to market for next-generation IoT-based asset tracking applications

Poing, Germany, 12th August 2021 – EBV Elektronik, an [Avnet](#) company (NASDAQ: [AVT](#)), today revealed close support and cooperation with [General Mechatronics Ltd](#), a highly innovative Budapest-based company that has devised an award-winning smart sensor device designed for use in asset-tracking systems and applications. Set up in 2012 as a spin-off business from the Budapest University of Technology and Economics, General Mechatronics was formed by two PhD students from the university.

Designed to operate for years, without external power or charging, the company's [NaBi Solo](#) is a special battery powered long-life tracker product that enables the collection of GPS location with any kind of sensor data, for example, for a variety of devices in a wide range of use cases – from the location of a piece of machinery or a gas bottle to the internal temperature of a food transport container. The use of low-power transmission technology and its highly flexible configurability means the NaBi can monitor any assets without electricity, thus inducing a paradigm shift in the asset tracking & smart sensor industry. There was no feasible solution before the deployment of 5G technology to GPS track an excavator bucket or a traffic sign for many years.

A [Red Dot](#) award winner in 2021 in the 'smart product' category, the NaBi is a configurable smart sensor device that employs 'NarrowBand-Internet of Things' (NB-IoT) – a standards-based LPWAN (low-power wide-area network) technology. Leveraging the use of the 5G mobile network, NB-IoT enables the transmission of relatively small amounts data while using extremely low levels of power consumption.

The device enables the sending of data to cloud-based data-analytics processing software – which can then be used by organisations to optimize processes and significantly reduce or even eliminate costs, as well as potentially creating completely new business opportunities. The collected data can be read by customers via web interface, mobile app or a REST API.

From the beginning of the project, a local team of engineers from EBV worked closely with the NaBi design team at General Mechatronics. The EBV team helped with the selection and sourcing of many components, especially those devices that provided the compute power and wireless connectivity for the NaBi Solo, including the powerful STM32 family of microcontrollers from STMicroelectronics and antenna from Taoglas.

“The EBV support team delivered a really high level of technical support, together with strong and responsive customer care,” said Géza Szayer, owner and founder of General Mechatronics. “EBV also has strong relationships with manufacturer’s engineering teams, thus giving us a great overview about preliminary state products and the future of semiconductor trends. This enables our company to keep ahead by designing tech products beyond state-of-the-art.”

“The relationship built up between our team of application engineers and supply specialists and the NaBi design team is a great example of what can be achieved between a distributor and a maker of highly innovative cutting-edge products,” said István Gnyálin, Technical Account Manager at EBV Elektronik Hungary. “Additionally, it shows that small teams of engineers – from both sides – working closely together can really make the difference. It also demonstrates EBV’s resources to quickly deploy expertise and product development capabilities that can meet the needs of leading innovators across Europe.”

About EBV Elektronik

EBV Elektronik, an Avnet (NASDAQ:AVT) company, was founded in 1969 and is the leading specialist in European semiconductor distribution. EBV maintains its successful strategy of personal commitment to customers and excellent services. 240 Technical Sales Specialists provide a strong focus on a selected group of long-term manufacturing partners. 120 continuously trained Application Specialists offer extensive application know-how and design expertise. With the EBVchips Program, EBV, together with its customers, defines and develops new semiconductor products. Targeted customers in selected growth markets will be supported by the Vertical Sales Segments. Warehouse operations, complete logistics solutions and value-added services such as programming, taping & reeling and laser marking are fulfilled by Avnet Logistics, EBV’s logistical backbone and Europe’s largest service centre. EBV operates from 65 offices in 29 countries throughout EMEA (Europe – Middle East – Africa). For more information about EBV Elektronik, please visit www.ebv.com.

About Avnet

As a leading global technology distributor and solutions provider, Avnet has served customers' evolving needs for an entire century. We support customers at each stage of a product's lifecycle, from idea to design and from prototype to production. Our unique position at the center of the technology value chain enables us to accelerate the design and supply stages of product development so customers can realize revenue faster. Decade after decade, Avnet helps its customers and suppliers around the world realize the transformative possibilities of technology. Learn more about Avnet at www.avnet.com.

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