

## Press release

Ellwangen, 6 February 2020

### Smart applications need smart energy

#### **VARTA at Embedded World: Batteries for various applications in the Internet of Things (IoT)**

Globally networked devices, machines and sensors have long left the realms of fantasy and become reality thanks to the "Internet of Things" (IoT). The Internet of Things is about to revolutionise our daily lives. A precisely tailored energy supply is an essential prerequisite for ensuring that the growing and increasingly differentiated IoT applications function. Batteries need to last for a very long time and their performance must meet the requirements of the respective use. At Embedded World, which is being held in Nuremberg from 25 to 27 February 2020, VARTA is showcasing its comprehensive portfolio of battery solutions for the connected world in the Internet of Things, which it will be presenting in hall 3A, booth 717.

VARTA Microbattery's trade fair presentation is focusing on Nickel-Metal Hydride cells, Lithium coin cells and Lithium-Ion coin cells (microbatteries) as tailor-made energy supply for the diverse applications in the IoT. "Embedded systems are becoming increasingly smaller and their areas of application ever more diverse. They make machines more productive, biometric sensors provide timely warnings of health problems, and cars warn each other about traffic jams or accidents. These few examples illustrate just how sensitive networked applications are. Accordingly, users must be able to rely on a reliable and safe power supply, which we can guarantee with our broad battery range," emphasises Philipp Miehlisch, General Manager OEM at VARTA Microbattery GmbH.

#### **Robust and powerful: Nickel-Metal Hydride cells**

Modern high-performance applications, such as those particularly offered by the IoT, require a high-quality, high-performance energy source with a long life. VARTA Microbattery offers a complete range of rechargeable Nickel-Metal Hydride (NiMH) cells and batteries to meet these requirements. The NiMH cells are characterised by their robustness, high performance and an extended temperature range as well as easy scalability (1.2 V system).

#### **Lithium coin cells provide reliable energy**

For almost all electronic applications, it's crucial that batteries have a long life, flat design and low weight. VARTA's complete range of highly reliable primary Lithium cells and batteries are especially aimed at meeting the critical data protection demands of electronic systems in the metering and security market (backup).

#### **CP1240: Power pack with maximum capacity**

Modern high-performance applications such as premium wireless headphones, wearable wristband displays, medical sensors and dispensing systems, security and access control solutions as well as smart toys require a light and powerful power source with outstanding performance specifications and maximum quality. The company offers a wide range of Lithium-Ion coin cells for these applications, with centre stage given to its rechargeable CoinPower series. The VARTA CoinPower series has the highest energy density in the Lithium-Ion cell market, which is up to 30 per cent greater than that of comparable batteries. VARTA Microbattery is particularly highlighting its most powerful cell in this series, the new CP1240, at Embedded World: the compact power pack achieves the highest capacity of 43 milliampere-hours (mAh) among the 4 millimetre flat cells. The CP1240 has an energy density of 346 watt hours per litre.

## New film clip shows the variety of energy solutions for IoT applications

At Embedded World, VARTA is showing for the first time, with a newly produced film clip, how the different application scenarios in IoT and their tailor-made battery solutions look in everyday use. "The Connected World powered by VARTA" is presenting concrete applications in the three Smart Home, Smart City and Smart Factories and Industry 4.0 areas.

### About VARTA AG

VARTA AG produces and markets a comprehensive battery portfolio, ranging from microbatteries, household batteries, energy storage systems to customer-specific battery solutions for a wide range of applications, and, as a technology leader, sets industry standards in key areas. As the parent company of the Group, it operates in the business segments "Microbatteries & Solutions" and "Household Batteries".

The "Microbatteries & Solutions" segment focuses on the OEM business for microbatteries as well as on the lithium-ion battery pack business. Through intensive research and development, VARTA sets global standards in the microbattery sector and is a recognized innovation leader in the important growth markets of lithium-ion technology and primary hearing aid batteries. The "Household Batteries" segment comprises the battery business for end customers, including household batteries, rechargeable batteries, chargers, portable power (power banks) and lights as well as energy storage devices. The VARTA AG Group currently employs almost 4,000 people. With five production and manufacturing facilities in Europe and Asia, and distribution centers in Asia, Europe and the USA, VARTA AG's operating subsidiaries are currently active in over 75 countries worldwide.

### Press images:



Maximum energy density: The entire CoinPower series from VARTA Microbattery.



New CP1240 in smart glasses during use in a smart factory.

Photos: VARTA Microbattery GmbH

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