

## Press Release

May 06, 2019

Joint release by Infineon Technologies AG and Schweizer Electronic AG

### **Reducing CO<sub>2</sub> in traffic: Continental first player to implement innovative technology from SCHWEIZER and Infineon for 48 V systems**

**Schramberg / Munich, Germany – 6 May 2019** – Schweizer Electronic AG and Infineon Technologies AG have developed a new technology for the mild-hybridization of cars: chip embedding for Power MOSFETs. It will significantly improve the performance of 48 V systems while reducing their complexity. Continental Powertrain will be the first player to adopt the technology.

“Embedding Power MOSFETs will open a new chapter of possibilities for the electrification of mild hybrid cars,” said Dr. Rolf Merte, CEO at Schweizer Electronic. “The fact that one of the world’s leading automotive suppliers has chosen our technology confirms its potential.”

With chip embedding, the Power MOSFETs are no longer soldered onto a circuit board but integrated within. “The resulting thermal benefits allow a higher power density and board integration enables further improvements in system reliability” said Dr. Frank Findeis, who is heading Infineon’s automotive MOSFET business. “These advantages result in higher power or more cost effective 48 V systems.”

As a first application, Continental Powertrain has decided to implement the new technology in a 48 V starter generator for vehicles from a major European carmaker.

“Chip embedding allows us to increase electrical power by 60 percent compared to a traditionally designed system,” said Dietmar Vogt, System Technical Project Leader at Continental Powertrain.

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Contact:

Christina Blake | Media & Communications | Schweizer Electronic AG | Einsteinstraße 10 | 78713 Schramberg  
Phone: + 49 7422 / 512-213 | Fax: + 49 7422 - 512 777 213 | Mobile: + 49 151 - 15119010  
E-mail: [Communications@schweizer.ag](mailto:Communications@schweizer.ag) | Please visit our website: [www.morethanPCBs.com](http://www.morethanPCBs.com)

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48 V starter generators are a key contributor to the CO<sub>2</sub> reduction of up to about 15 percent achieved by a mild hybrid vehicle compared to a conventional drive train. They allow the engine to be stopped more often and for a longer duration than a 12 V based start-stop-system. Furthermore they can boost acceleration and thus reduce load on the combustion engine. During braking they recover more of the kinetic energy than a 12 V system.

Infineon contributes its leading MOSFET technology OptiMOS™5 to the new approach, Schweizer its embedding power PCB technology called Smart p<sup>2</sup> Pack®. The partners plan to start mass production in 2021.

### About Schweizer

Schweizer Electronic AG stands for state-of-the-art technology and consultancy competence. SCHWEIZER's premium printed circuit boards and innovative solutions and services for automotive, solar, industry and aviation electronics address key challenges in the areas of Power Electronics, Embedding and System Cost Reduction. Its products are distinguished for their superior quality and their energy-saving and environmentally-friendly features. Together with its partners WUS Printed Circuit (Kunshan) Co., Ltd., Meiko Electronics Co. Ltd. and Elekonta Marek GmbH & Co. KG the company offers in its division electronics cost- and production-optimised solutions for small, medium and large series. Together with its partner Infineon Technologies AG, SCHWEIZER plans to jointly tap the chip embedding market in future.

The company was founded by Christoph Schweizer in 1849 and is listed at the Stuttgart and Frankfurt Stock Exchanges (ticker symbol „SCE“, „ISIN DE 000515623“).

For further information please contact:

Christina Blake  
Schweizer Electronic AG  
Einsteinstraße 10  
78713 Schramberg  
Phone: +49 7422 / 512-213  
E-mail: [communications@schweizer.ag](mailto:communications@schweizer.ag)  
Fax: +49 7422 / 512-777-213  
Please visit our website: [www.morethanPCBs.com](http://www.morethanPCBs.com)

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Phone: + 49 7422 / 512-213 | Fax: + 49 7422 - 512 777 213 | Mobile: + 49 151 - 15119010  
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