

Keep cool and safe en route with the Melexis MLX90129

Melexis, an early and innovative semiconductor player in the RFID market, demonstrates its new sensor tag IC, the MLX90129; during the Sensor & Test exhibition. This contactless sensing system on a chip targets applications such as cold chain management, industrial data logger or medical monitoring devices. The product will be presented at Sensor + Test in the Forum of Hall 12 on Tuesday May 26 at 15.30.

The MLX90129 embeds a versatile sensor interface together with an internal temperature sensor to monitor environmental parameters, a 3,2kilobit data storage memory, an ISO/IEC15693 RFID tag front end enabling fast and easy data collection, an SPI port allowing capability extension by connecting external memory or microcontroller and an internal state machine to enable standalone operation.

The MLX90129 has been successfully designed-in at targeted customers. "Since the emergence of RFID in industrial markets, many actors dreamed of the ideal sensor tag IC. Melexis has succeeded in making it." said Joachim Uhl, CEO of Scemtec Sensor Technology GmbH. "The Melexis Sensor Tag IC embeds the majority of the requested features and functions used in Data Logging applications, replacing costly multi-chip solutions. The ultra low power consumption extends battery life and the RFID interface simplifies the data collection. When we decided to develop our ScemTag Data Logger, we naturally chose the MLX90129."

Gilles Cerede, RFID Product Marketing Manager at Melexis comments: "When we started to introduce the MLX90129 on the market, Scemtec was one of our target customers. Their experience and end user knowledge definitely helped guide our development efforts. We are delighted that, after a thorough evaluation process, Scemtec selected the MLX90129 as we believe this product offers a unique combination of Melexis' expertise in both sensing and wireless systems."

Patrick Albert, RFID Business Unit Manager at Melexis, said: "As an innovative RFID ICs manufacturer, our aim is to offer differentiated products that will help our customers to simplify the deployment of RFID solutions. In the specific case of MLX90129, we are convinced that it will leapfrog the hurdles which currently limit the deployment of accurate and cost efficient monitoring in cool and cold chain management."

The design samples of the MLX90129 are available (with a lead time of 8 weeks) and an evaluation board and a development kit will follow in August and October. Volume production will start in November 2009. The device is offered in a -40 to 85°C version in the industry standard TSSOP20 pin package for surface mount manufacturing. Estimated pricing for the MLX90129 will be 1.00 Euros at 50,000 pieces quantity.

About Scemtec Sensor Technology GmbH

Scemtec SST develops and produces customer specific sensor solutions; for those sensors SST offers different interfaces based on either wireless passive (RFID) or active radio technology (e.g. Zigbee).

Developments utilize low cost sensors for e.g. temperature, humidity, pressure, forces and distance. Upgraded versions with battery allow additional data logging and active transmitting. Further information about scemtec can be found at <http://www.scemtec.com>

About Melexis

Melexis (Euronext Brussels: MELE) is a supplier of smart mixed-signal semiconductors. Our core experience derived from more than ten years supplying ICs to the automotive electronics market sustains the expansion into Application Specific Standard Products for industrial and consumer product applications. Melexis' products include sensor ICs (Hall-effect, optical, infrared and Micro-Electro-Mechanical Systems or MEMS), communication ICs (low power RF, RFID and Automotive BUS), actuator

ICs (for electric motors, solenoids and LEDs) and Application Specific Integrated Circuits (ASICs). Further information about Melexis can be found at <http://www.melexis.com>.

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