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PRESS RELEASE

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FLEXCARD PCIe3 / PXIe3

TRIED, TESTED AND NEWLY DESIGNED - FlexDevice enters the measurement environment

Göppingen, 19.01.2021 – FlexCard PCIe3 / PXIe3 now available

STAR COOPERATION expands its product portfolio. The proven advantages of the FlexDevice product series are now being implemented in measuring systems. The **FlexCard PCIe3** and the **FlexCard PXIe3** now offer the option of **integrating remaining bus simulations or gateways** capable of working in real-time in their **measurement environments**. The advantages are obvious: The interface card offers a high degree of flexibility due to the pluggable transceiver modules for **CAN-HS, CAN-FD, FlexRay, 100BASE-TX, LIN, SENT, 100BASE-T1 and 1000BASE-T1**. No matter what the future has in store, FlexCard users will be well equipped for **future automotive bus systems**. The modular design allows **up to 30 channels** per card, depending on the combination. Several FlexCards can be **operated time-synchronously**. The generation of synchronous time stamps for most bus interfaces is up to 1 µs.

A full calculation of the remaining bus simulation and gateway **is carried out onboard** on the integrated **Altera Cyclone processor** (ARM Cortex-A9 Dual Core CPU). This means that the **main processor for the measuring system is not overloaded** and is fully available for other applications.

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Prof. Dr. Alfred Neher, Sofia Neher
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This architecture enables a decoupled parallel operation of FlexConfig RBS and interface mode. This outcome of this innovation is **short latent periods** and **better real-time behaviour**.

In addition to the Windows 10 (64-bit) driver, STAR now also offers a **Driver for Linux (Kernel 5.4)** including **Linux Preempt support** (real-time Linux).

This powerful combination provides versatile solutions for:

- Gateways between different vehicle bus systems
- Connection of vehicle bus systems
- Fixed bus simulation
- Signal manipulation
- Data collection
- Rapid prototyping

Technical data:

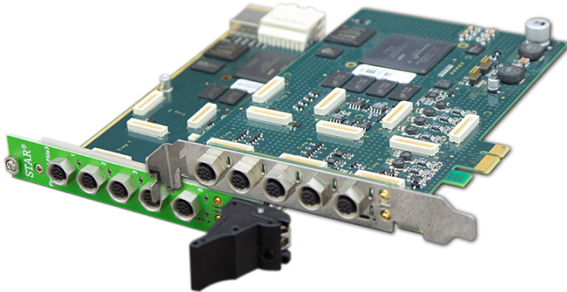
- Integrated Altera Cyclone V SoC (integrated ARM Cortex-A9 dual core CPU)
- Up to 4 FlexRay controllers (4 Bosch E-Ray cores)*
- Up to 8 FlexRay channels (4 channel A and 4 channel B) available at bus connections*
- 2 FlexRay-CCs can be connected internally (Self-Sync)
- Up to 10 CAN-HS bus interfaces*.
- Up to 10 CAN-FD bus interfaces*.
- Up to 7 separate 100BASE-T1 bus interfaces or 15 switched 100BASE-T1 channels*
- Switchable onboard bus termination
- Support for wake-up/sleep mode (wake-up via FlexRay or CAN)
- Generation of synchronous time stamps for all bus interfaces (resolution up to 1 µs)
- 2 trigger inputs or outputs
- 3 different operating modes:
 - Pure FlexCard mode. Sending/receiving bus data on the PCIe host system through the Windows driver
 - Pure FlexDevice mode. Execution of real-time remaining bus simulations and gateways
 - Mixed mode. Execution of real-time remaining bus simulations on the integrated ARM Cortex-A9 CPU and reception of all bus data on the PCIe host system (PC).
- Gateway and/or remaining bus simulations can be run autonomously on the integrated ARM Cortex-A9 CPU
 - without affecting the PCIe host system (PC).
- The bus data can therefore be transferred to the PCIe host system at a high performance level and without
 - influencing the execution of gateway/remaining bus simulations.

* Several bus combinations are possible. Users are encouraged to contact STAR COOPERATION regarding their desired bus configuration.

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Caption: FlexCard PCIe3 and FlexCard PXIe3 – TRIED, TESTED AND NEWLY DESIGNED – FlexDevice enters the measurement environment

About STAR COOPERATION

Networked competence and passion for your success: Since 1997, STAR COOPERATION has been supporting companies of all sizes and sectors in efficiently planning, designing and successfully implementing projects. Customers benefit from interdisciplinary know-how and synergies in the areas of CONSULTING, ELECTRONICS, ENGINEERING, IT, LOGISTICS AND MEDIA. Drawing on experienced experts from the field, STAR® delivers innovative ideas and sophisticated solutions that are precisely adapted to their customers and the individual needs of each project. This means they can make the most of your resources and improve every day.

STAR COOPERATION GmbH is certified according to the management systems DIN EN ISO 9001:2015, ISO 50001:2011, ISO 14001:2015 and ISO 45001:2018.

Concentrated know-how in the field of ELECTRONICS. Our automotive electronics experts provide extensive solutions in the field of workshop, production and development for test and validation of automotive E/E systems for all power and voltage ranges as well as all bus systems

We look forward to a voucher copy

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