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PRESS RELEASE

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FL3X TAP 100/1000BASE-T1 – Precise Analysis for Automotive Ethernet

The increasing connectivity in vehicles requires reliable tools for analyzing Automotive Ethernet networks. With the FL3X TAP 100/1000BASE-T1, STAR COOPERATION introduces a device that mirrors data streams from 100BASE-T1 and 1000BASE-T1 connections losslessly and makes them available for diagnostic and testing purposes.

The system offers six TAPs with a total of twelve H-MTD ports and two SFP+ uplinks for bandwidths of up to 2×10 Gbit/s. All captured data is transmitted via standardized protocols such as ASAM CMP v1.0 and PLP. Timestamping is performed with nanosecond resolution, complemented by synchronization via gPTP/PTP, enabling precise alignment of multiple interfaces.

Configuration is fully web-based or via REST API, with import and export functions simplifying the transfer of settings in complex test environments. A 4 GB buffer with timestamp recalibration ensures that no data is lost even under high load. In addition to pure mirroring, the device supports functions such as traffic shaping, packet filtering, and targeted injections for diagnostic purposes. The Plus variant forwards traffic even without power supply, increasing operational safety.

The FL3X TAP captures all Ethernet packets and layers, including AVB/TSN, making it suitable for modern vehicle architecture. Its combination of technical precision and ease of use makes it a practical tool for developers and test engineers. In ECU communication validation, the FL3X TAP enables lossless capture of traffic between control units to verify protocol compliance and timing.

For infotainment and driver assistance systems relying on AVB and TSN, nanosecond-accurate timestamping provides precise evaluation of real-time capability. Even in cases of sporadic network errors, the FL3X TAP delivers complete packet data to quickly identify causes such as faulty frames or timing issues. In hardware-in-the-loop environments, the device can be configured automatically via REST API and integrated seamlessly into test workflows.

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HRB-Nr.: 24 5011, UStID-Nr.: DE 189 768 946

Outlook:

STAR® is already working on the next generation: the FL3X TAP 10GBASE-T1. This device will support two TAP channels for 10GBASE-T1 and is expected to be available in the second quarter of 2026, taking high-speed Ethernet analysis in the automotive sector to a new level.

Further information is available on our website.



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About STAR COOPERATION

Networked expertise and passion to help you succeed: since 1997, STAR COOPERATION has been assisting companies of all sizes from a wide range of industries in planning and developing their projects efficiently and implementing them successfully. Customers benefit from our interdisciplinary expertise and synergies in the areas of CONSULTING, ELECTRONICS, ENGINEERING, IT, LOGISTICS and MEDIA. Our experts have extensive practical experience, helping STAR® to provide innovative ideas and sophisticated solutions – tailored precisely to our customers and their specific project needs. This enables them to make best use of their resources and to improve every day.

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

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STAR COOPERATION®

Your Partners in Excellence

Pooled expertise in ELECTRONICS: the portfolio of services offered by our experts in vehicle electronics includes a wide range of solutions for workshops, production and development, all for the testing and validation of automotive E/E systems in any voltage and power range and for any bus system.

We look forward to receiving a sample copy.

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