STAR COOPERATION®

Your Partners in Excellence

SENSOR- / ACTUATOR TECHNOLOGY

ENERGY TECHNOLOGY

NETWORK TECHNOLOGY

FlexConfig SDK

www.star-cooperation.com

FlexConfig SDK is a .NET library for the easy access of automotive bus/network systems in your own windows applications. The library supports a wide range of automotive database formats like AUTOSAR (*.arxml), FIBEX (*.xml) and CANdb (*.dbc).

FlexConfig SDK can be used in combination with the products of the FlexDevice-Family and the FlexCard-Family.

For the customers it is very easy to expand his own application for logging, test benches or HIL (Hardware in the Loop) systems with the complete functionality regarding automotive bus/network systems. With a wide range of supported devices it is possible to create very cost effective and perfectly tailored solutions for the special usecase.

The following functionality is supported by FlexConfig SDK:

- Reading and interpretation of a wide range of automotive network description files - AUTOSAR (*.arxml), FIBEX (*.xml) and CANdb (*.dbc)
- Supports wide range of devices from the FlexDevice or FlexCard family as a bus/network interface to the automotive bus system*
- automatic configuration (plug'n'play) of the connected devices
- automatic conversion of the received raw values into physical values based on the loaded automotive network description file
- the .NET library provides a simple internal interface to the received and interpreted bus/network data
- Sending of CAN-FD/HS messages

*device must be purchased separately

BENEFITS

- Nearly all available automotive network description formats are supported e.g. AUTOSAR (*.arxml), FIBEX (*.xml) and CANdb (*.dbc)
- Supports all STAR ELECTRONICS FlexDevices and FlexCards*
- Easy integration of the FlexConfig SDK .NET library in your own applications
- Direct physical interpretation of the bus signals is done by the .NET library.
- IEEE 802.AS-2011 support, for timestamp synchronisation over PTP

*FlexCard Air-S and FlexDevice-M are not supported

STAR COOPERATION GmbH

Otto-Lilienthal-Straße 5 | 71034 Böblingen | Phone +49 7031 6288-300 | www.star-cooperation.com/ee-solutions | sales-ee@star-cooperation.com

FlexConfig SDK

TECHNICAL FEATURES

Features:

- device enumeration functionality
- simple device configuration via database file
- bus/network support for CAN-FD/HS, Ethernet and FlexRay*
- receive functionality for CAN-FD/HS, Ethernet and FlexRay
- send functionalitiy for CAN-FD/HS
- interpretation functionality for PDU and signals
- support for SOME/IP
- support multiplexed PDUs and PDUs in container layout
- support Timing synchronization PTP for IEEE 802.1 AS-2011

*currently only reading of signals from the bus system is supported, writing follows soon.

Supported network description files:

- **CANdb (.dbc)**
- **FIBEX (.xml) Version:**
  2.0.0d, 2.01, 3.0.0, 3.1.0, 4.0.0, 4.1.1, 4.1.2, FIBEX+ 1.4
- **AUTOSAR (.arxml) Version:**
  3.0.2, 3.1.0, 3.1.4.DAI.2, 3.1.4.DAI.4, 3.2.2, 4.0.3, 4.1.1, 4.2.1, 4.2.2, 4.3.0, 4.3.1

Supported devices:

- all actual FlexDevices and FlexCards

Scope of delivery:

- .NET Library
- Usermanual
- Dongle

Minimal system requirements:

Windows 10*

*other operating systems on request

ORDER INFORMATION FLEXCONFIG SDK

Product	Description	Order number
FlexConfig-SDK	FlexConfig SDK main product	3-V0161K01-01
FlexConfig-SDK Maintenance	Maintenance for one year	3-V0161L01-01

All rights reserved. Version 04 - 05/2021 © STAR COOPERATION

STAR COOPERATION is certified according to the standards DIN EN ISO 50001:2011, ISO 9001:2015 and ISO 14001:2015. All information is for product information purposes only and does not constitute a claim for warranty regarding the correctness or completeness of the contents. Subject to change without notice.