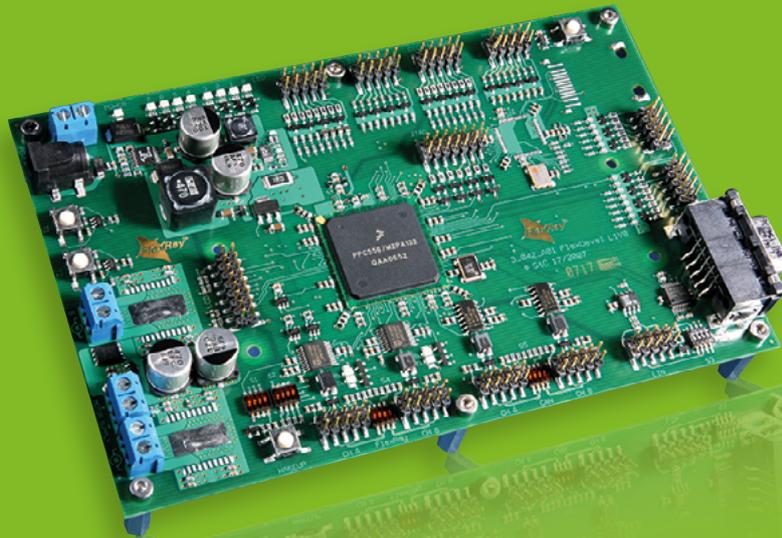


STAR COOPERATION®

Your Partners in Excellence



FlexDevel

www.star-cooperation.com

BENEFITS

- Complete solution for beginners in automotive bus systems
- FlexRay / CAN / LIN / Ethernet interfaces on the micro controller platform available
- Functional C-code examples for all interfaces included
- Development toolchain (IDE, Compiler, Debugger) included
- C-code library for all interfaces included
- FlexConfig Developer Demo to configure the FlexRay bus system included

FLEXDEVEL – OVERVIEW

The FlexDevel is a low cost solution for beginners in automotive bus systems. It consists of a universal micro controller development platform with FlexRay, CAN, LIN and Ethernet interfaces. C-code examples and binaries for all interfaces are included, so all the interfaces can be used without programming C-code. This is an ideal base for own C-code projects and allows a step by step introduction to get in touch with programming and understanding automotive bus systems.

FlexDevel

TECHNICAL DATA

- Freescale PowerPC with integrated FlexRay Controller (MPC5567)
- 2 FlexRay channels (channel A and B)
- 2 CAN HS bus interfaces
- 2 H-bridges for control of actuators
- Switchable termination resistors (via DIP switches) for CAN and FlexRay
- Wakeup/Sleep-support (wakeup possible via CAN/FlexRay, push button or permanent on)
- 1 LIN
- 1 RS232
- 2 SPI
- 100 MB Ethernet
- 8 digital inputs, 8 digital outputs (also usable as PWM)
- 8 analog inputs
- 8 PWM outputs
- 8 individual usable LEDs
- 2 individual usable push buttons
- 1 slot for a LCD module

PHYSICAL CHARACTERISTICS

Connectors	
1 x Power supply	round DC jack 2pol.
1 x Power supply	Screw block 2pol.
1 x Ethernet	RJ45 8pol.
1 x RS232	Sub-D 9pol.
2 x FlexRay	2 x 5 pin 2,54mm 10pol.
2 x CAN	2 x 5 pin 2,54mm 10pol.
1 x LIN	2 x 5 pin 2,54mm 10pol.
2 x SPI	2 x 5 pin 2,54mm 10pol.
1 x Analog in	2 x 5 pin 2,54mm 10pol.
1 x Digital out	2 x 5 pin 2,54mm 10pol.
1 x Digital in	2 x 5 pin 2,54mm 10pol.
1 x PWM out	2 x 5 pin 2,54mm 10pol.
Weight approx.	150 g
Dimensions approx. L x W x H	177 x 110 x 20 mm3

ELECTRICAL CHARACTERISTICS

Supply voltage			
	Min.	Typ.	Max.
Operating	9 V	12 V	16 V
Absolute maximum	- 18	-	18 V
Supply current in operating mode	Typ: 150mA@12V		

ENVIRONMENTAL CONDITIONS

Environmental conditions	
Temperature	Operating / Non-operating: 0 - 55°C Storage: 0 - 70 °C
Relative Humidity	0% to 90% r.H., non-condensing

FLEXDEVEL KIT

The FlexDevel Kit is the ideal entry package for the FlexRay bus system. In addition to two versatile FlexDevel communication nodes that can be used to build up a FlexRay network, it includes all the programming software and hardware. With the FlexConfig Developer demo software, which is also included, you can use this system to build up your own FlexRay communication system without additional hardware or software.

Scope of delivery

- 2 FlexDevel as described above
- 1 FlexRay FlexConfig Developer demo configuration software package
- 1 USB PowerPC Nexus Multilink programming adapter, including flash software and debugger (limited to 64k)
- 2 FlexRay connecting cables
- Documentation in PDF format
- 1 FlexRay network designer software FlexConfig Developer (demo version)

ORDER INFORMATION FLEXDEVEL

Product	Description	Ordering number
FlexDevel	Development platform	3-V042-0B01
FlexDevel Kit	Entry package including 2x FlexDevel and all necessary hard- and software for programming.	3-V042-0K01