FlexCard PMC II Xenomai

Features

The FlexCard PMC II is a bus interface device for automotive bus systems in PMC design. Up to four physical layer (FlexTiny II) slots allow several configurations of bus communication controllers. The FlexCard can be used to build up bootable FlexRay clusters (due to two independent communication controllers). The supplied driver for Xenomai supports up to two independent FlexRay Extension Modules (each with FlexRay A+B).

- Asynchronous monitoring mode allows listening without FlexRay synchronicity
- Combined asynchronous and synchronous monitoring mode
- Chronological correlation of bus messages with one timestamp base
- Triggering on the precise slot, cycle, channel and on various error states
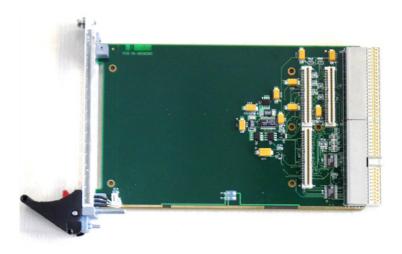- Start-up communication controller

Hardware

- 2 MB on-board RAM
- Cyclone III FPGA
- Bosch E-Ray IP Core FlexRay controller
- V2.1 A FlexRay protocol specification
- Configurable bus termination
- Short latency times
- Hardware time synchronization

Order Information

Article Description	FlexCard PMC II Xenomai	FlexCard PMC II FR Extension (FlexRay Piggiback for PMC II)
Order Number	FlexCard-PMCII-X	FlexCard-PMCII-FRext

FlexRay – Hardware Components

- Carrierboard for PMC Cards
- For Integration in Xpack4

- FlexCard PMC II equipped with one FlexTiny II

- FlexTiny II – providing FlexRay Functionality