Series 61

Intelligent Programmable Communication Controller

With new Series 61 GOEPEL electronic offers the powerful communication controllers for CAN, LIN, K-Line, MOST and FlexRay. This intelligent programmable architecture enables the portability to different hardware platforms. Based on the current Series 61 modules for **PCI**, **PXI**, **USB** and **Ethernet**, and the compact automotive tester **magicCAR³** are available.

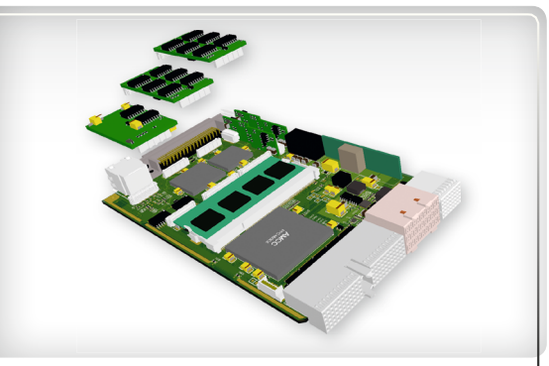
The new **concept** allows the user to configure the controller **individually** and **flexibly** with a wide range of options to satisfy their needs or **expand** the functionality at a later stage. In the basic configuration, the user has two separate communication interfaces. These can be optionally extended by up to four additional ports. This results in a variety of configuration options and thus possibility of applications.

All the communication resources of the Series 61 are supported by a **powerful PowerPC** in connection with an **extensive onboard firmware**. With this architecture complex and computationally intensive processes can be realized without host PC system.

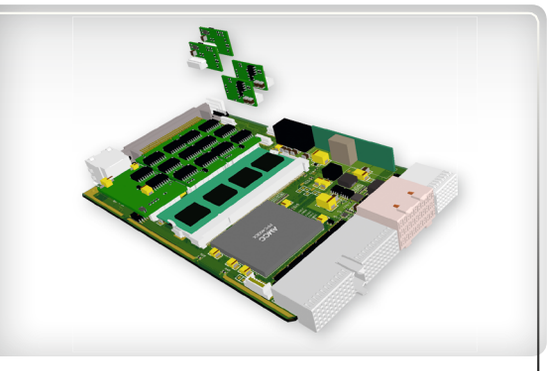
In addition to the parameterisation of the controller via the standard Windows API from GOEPEL electronic, the user can run and debug **own program code** directly onboard of the Series 61 module with support of the onboard API. Later after successful installation the Series 61 module can start the user code automatically without PC support.

GOEPEL electronic

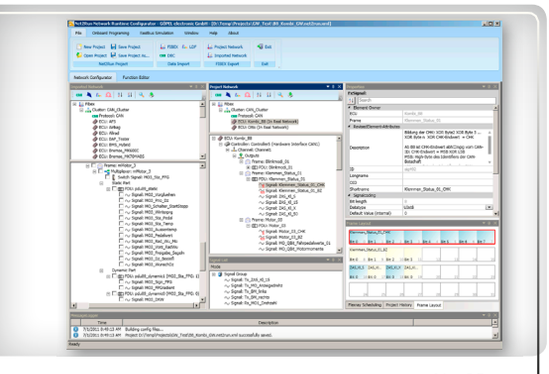
Automotive Test Solutions
Series 61



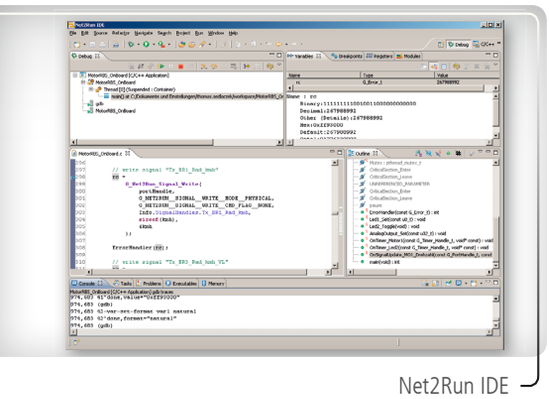
Basic assembly with add-on modules



Basic assembly with bus transceivers

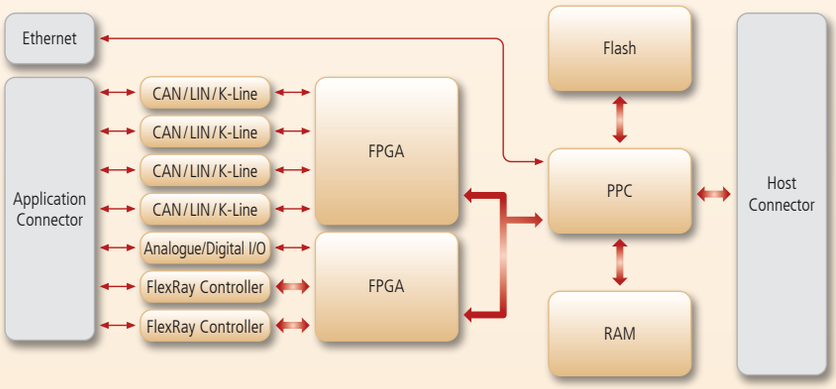


Net2Run



Net2Run IDE

Hardware



Series 61 – block diagram

Features

- PowerPC 600 MHz with real-time operating system QNX
- 512 megabytes of RAM
- 256 megabytes of flash memory
- Maximum up to six separate communication ports for CAN, LIN, K-Line and FlexRay
- Exchangeable bus transceivers
- Up to six analogue inputs and outputs in parallel with the communication ports
- Up to eight digital inputs and outputs in parallel with the communication ports
- Galvanic isolation of all resources

Software

- General API including HardwareExplorer for Windows
- Onboard firmware features to support all resources
- Onboard API for user programming
- LabVIEW® driver library
- Onboard support for transport protocols, diagnostics, network management, etc.
- Trace and replay functions

Configuration Overview

Function	6153	6161	6173	6181	6191
Port 1	CAN	MOST	LIN / K-Line	CAN	FlexRay
Port 2	CAN	Option 1	LIN / K-Line	LIN / K-Line	FlexRay
Port 3	Option 1	Option 1	Option 1	Option 1	Option 1
Port 4	Option 1	-	Option 1	Option 1	Option 1
Port 5	Option 2	-	Option 2	Option 2	Option 1
Port 6	Option 2	-	Option 2	Option 2	Option 1
Analogue and digital-I/O	Option 3 or Option 4	Option 5	Option 3 or Option 4	Option 3 or Option 4	Option 3 or Option 4

Option 1: one additional CAN or LIN / K-Line port

Option 2: one additional FlexRay port

Option 3: eight digital inputs; eight digital outputs; six analogue inputs; six analogue outputs

Option 4: eight digital inputs; eight digital outputs; four analogue inputs; four analogue outputs; one SPI interface

Option 5: four digital inputs; four digital outputs

GOEPEL electronic

ISO 9001 certified

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