Tiny PLC integrated into strut profiles

Barth has announced that its STG-800 programmable logic controller (PLC) with CANopen connectivity fits into Bosch Rexroth's 80 mm x 80 mm profiles. Of course, similar profiles by other suppliers can be used, as well.

The tiny STG-800 extends the well-established Mini-PLC series with the smallest model coming with a powerful 32-bit Cortex core. The host controller provides a CANopen interface with NMT master functionality. It features an intuitive graphical programming capability. The ARM processor provides two high-speed event, pulse and frequency counter inputs, and one 16-bit PWM (pulse-width modulation) output combined with an internal voltage reference for the 12-bit analog inputs. The CANopen interface is able to operate in noisy environment and allows the user to connect a variety of network devices to the Mini-PLC. The STG-800 does not need any peripheral devices to operate. Both inputs and outputs features highly integrated and rugged protection circuits to operate the Mini-PLC in harsh environment.

These outstanding features open up a variety of application fields in industrial, automotive, and 12/24-V battery-powered applications. The PLC can be programmed using the graphical miCon-L software suite, Artuino IDE, or Keil MDK. It is also available as customer-tailored OEM version within eight weeks according to the supplier.

The PLC can be integrated into Bosch Rexroth's strut profiles measuring 80 mm x 80 mm. The PLC supplier also offers customer-tailored caps to integrate connectors or switches connected to the controller inside the strut profile.

Several customers use the host controller in combination with Labview. It is easy to integrate them to Labview using the CAN interface: Just use a USB/CAN dongle and the Labview driver program to interface the PLC. The host controller provides the parameters and values to be shared with the Labview software. The above-mentioned programming environments support a graphical programming.

The CANopen interface features NMT master or NMT slave capability. So CANopen motor controllers or actuators can be easily driven by PLC. The supplier provides free-of-charge C programming templates. Igus is another customer using the PLC connecting via CANopen to its own motion controllers. ◄

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www.barth-elektronik.com

CAN Newsletter Online: Programmable logic controllers

Drive with PLC
Suitable for motors from 180 W to 4 kW
The CFW300 variable speed drive from WEG with an integrated PLC provides optionally CANopen or Devicenet interface. The product is intended for small machines.

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32-bit PLC
Programmable in IEC 61131-3 languages
The K1 controller by Cannon Automata comes with an Arm Cortex-A9-based 32-bit CPU. It is suitable for universal PLC applications as well as for applications with demands on processing power and communication capability.

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Multi-touch PLC
Awarded by Control Engineering readers
The readers of the Control Engineering magazine have selected the Unistream PLC by Unitronics for the Grand Award 2018. The product provides optionally CANopen connectivity.

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PLC with HMI
Operation, visualization, and control in one device
NXP has developed a CAN FD transceiver with cyber security features. This includes an ID whitelist and a bus-load measuring capability.

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CAN-based products
Controller and HMI
The STG-8xx Mini-PLC series from Barth are integrated programmable logic controllers (PLC) providing graphical programming capability. The company's CAN Touch Display DMA-15 can be integrated as HMI in the user's CAN network.

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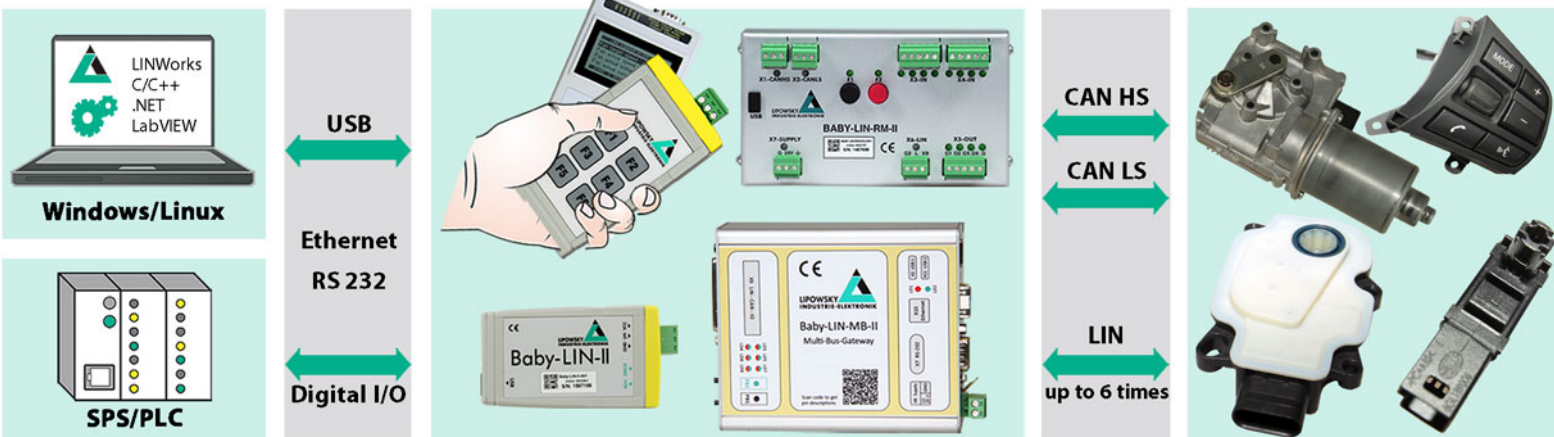**CANopen I/O module**
With four analog inputs
The Hipecs-CIO57 from Frenzel + Berg is a CANopen module with four current inputs for 0-mA-to-20-mA or 4-mA-to-20-mA signals. It is designed for extensions of PLC controller systems or similar applications.

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