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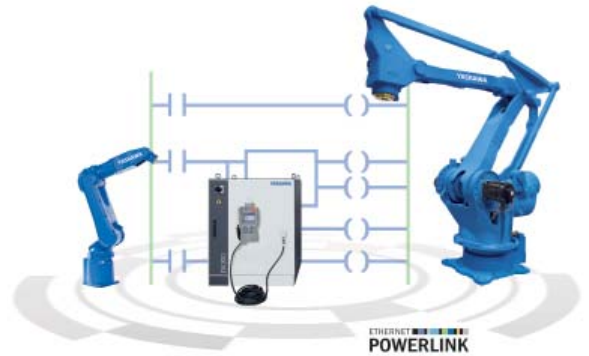
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Yaskawa integrates POWERLINK in DX200 robot controller

Yaskawa has integrated POWERLINK in their DX200 robot controller, making it possible to seamlessly incorporate Motoman robots into machine automation systems. For machine manufacturers, this advancement considerably simplifies the programming of robots.



Integrating POWERLINK into the DX200 robot controller now allows Yaskawa Motoman robots to be seamlessly incorporated in machine automation systems.

“We not only created an interface to POWERLINK,” explains Bruno Schnekenburger, head of the robotics division at YASKAWA Europe. “With Motoman Sync, we also offer the possibility of programming robots in a familiar IEC 61131 environment.” Advantages include drastically reduced commissioning times and better clock accuracy.

Integration in a POWERLINK network results in additional benefits such as increased productivity. In addition, machines or plants can be designed more flexibly. A separate operator terminal for robots is not needed since all data required for operation and diagnostics can be displayed and modified on the machine's main terminal.

Up to 8 robots per controller

The DX200 is a high-performance robot controller for Yaskawa Motoman robots. It enables synchronous control of up to 8 robots or 72 axes and is equipped with a built-in safety controller in accordance with PL d / Cat. 3 for up to 32 user-defined safety areas and up to 16 different tools.

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POWERLINK – The next step in mobile automation

ESPG presents open source protocol at bauma

Many visitors and exhibitors will come to this year's bauma trade show – from November 11 - 14 in Hanover – in search of a high-performance backbone bus system for mobile automation. At Booth 314 in Hall A3, the Ethernet POWERLINK Standardization Group (ESPG) will present the POWERLINK protocol as the real-time bus system for a new generation of mobile automation.



At the bauma trade show, the Ethernet POWERLINK Standardization Group will present POWERLINK as the real-time bus system for a new generation of mobile automation.

Today's mobile equipment continues to push the limits of conventional bus technology. These systems can't offer the performance or bandwidth that state-of-the-art automation solutions demand. That's why the industry is on the search for a high-performance backbone bus system that complements the traditional CAN bus.

Based on PLCopen

POWERLINK offers the required performance and bandwidth and is based on CANopen mechanisms. It also conforms to the Ethernet specifications, offering support for cross-communication and hot-plugging and enabling free selection of network topology. BroadR-Reach technology allows it to be used over single twisted pair cables.

POWERLINK is widely used in industrial automation and has been applied in numerous national and international standards, including IEC 61784, IEC 61158, GB/T 27960-2011 (highest Chinese standard), Korean Standard KS C IEC 61158 and 61784.

Smooth transition to industrial Ethernet

POWERLINK is a real-time capable and hardware-independent open source protocol. It provides construction and agricultural equipment the ability to transition smoothly to an industrial Ethernet solution. With openSAFETY, the ESPG also offers an open source safety protocol with SIL 3 / PL e precertification. openSAFETY can operate on top of all the most commonly used protocols, so there is no need for a separate safety network.

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embedded world: POWERLINK for CODESYS

At embedded world – from February 23 - 25 in Nuremberg – BE.Services will be presenting an operational POWERLINK master for CODESYS. Visitors at the EPSG booth (Hall 5, Booth 271) will see firsthand how easy it is to integrate POWERLINK in the IEC 61131 development environment.



A large number of control system manufacturers use CODESYS as the development environment for their controllers. Machine manufacturers can now benefit from the advantages of the real-time POWERLINK network when programming their applications using CODESYS. "We have been pushing for the integration of POWERLINK in CODESYS because we see a demand for this combination globally," says Dimitri Philippe, managing director of BE.services.

Easy access

Easy access is absolutely necessary to ensure that the technology gains acceptance quickly. That's why the CODESYS IEC 61131 development environment and the POWERLINK plug-in are available for free from the CODESYS online store. The communication stack for POWERLINK is also available for free.

Open Automation Challenge

Getting students enthusiastic about open technologies

Openness and vendor-independence are essential elements of future-proof automation solutions. In order to introduce the concept of openness to engineering students, the Ethernet POWERLINK Standardization Group (EPSG) is partnering with Kalycito and India's Automation Industry Association (AIA) to hold a competition called the Open Automation Challenge.

"We are interested in nurturing and supporting young minds to play their part in engineering a better tomorrow," explains Ninad Deshpande, open technologies specialist at the EPSG. "The contest revolves around open source technologies like openPOWERLINK, which span multiple branches of engineering. Students who are able to improve, innovate and demonstrate new use cases for these technologies can win cash prizes, internships and job opportunities."

More information about the Open Automation Challenge can be found at www.kalycito.com/index.php/openautomation-challenge-16.

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