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## Kontakt:

POWERLINK-OFFICE der EPSG  
Bonsaiweg 6  
15370 Fredersdorf · Germany  
Tel.: +49(0)33439 539270  
Fax: +49(0)33439 539272  
info@ethernet-powerlink.org  
www.ethernet-powerlink.org

## Performance boost with openPOWERLINK 2.3

New version of industrial Ethernet stack presented at Hannover Messe



The new openPOWERLINK stack makes it possible to set up a deterministic network – even on a non-real-time operating system such as Windows.

Version 2.3 of the popular open source POWERLINK stack will be presented at the 2016 Hannover Messe in Hall 9 at Booth F25. This newest release brings improvements to the performance of operating-system-based masters and slaves. Support for coprocessor solutions that handle the real-time part of POWERLINK makes it possible to set up a deterministic network – even on conventional operating systems such as Windows – without a real-time extension.

This is particularly relevant for the image processing algorithms used in PC-based vision systems. Due to the new coprocessor support, stack 2.3 now makes it easier to integrate such systems deterministically into high-performance POWERLINK networks while still preserving high asynchronous bandwidth.

### Human-machine collaboration

In addition to advanced sensor technology, integrated safety concepts are essential to human-machine collaboration in shared workspaces. Along with the new POWERLINK stack, the EPSG booth will also showcase the latest safety solutions based on the fieldbus-independent openSAFETY standard.

The new openPOWERLINK stack is available for download on its Source-Forge page: <http://openpowerlink.sourceforge.net/>

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## POWERLINK servo drives for mobile applications

### ADVANCED Motion Controls expands DVP series

ADVANCED Motion Controls has added POWERLINK-enabled servo drives to its portfolio for mobile applications such as construction, municipal or agricultural vehicles. The DVP series from the company's DigiFlex Performance (DP) family of digital servo drives is designed to control brushed, brushless and AC induction servo motors and features a compact form factor ideal for embedded applications. POWERLINK complements the usual CANopen interface on the drive and enables it for complex high-performance motion control.



ADVANCED Motion Controls incorporates POWERLINK into its DVP series of DigiFlex Performance (DP) digital servo drives.

With each generation of mobile equipment more automated than the last, the traditional CAN bus can no longer handle the necessary volumes of data. POWERLINK offers the full range of CAN features and adds real-time capabilities as well as sufficient bandwidth for video, remote HMI, real-time processing and safety.

### Up to 12.5 kW

The DP servo drives are geared exclusively toward mobile applications and cover a wide continuous power range of up to 12.5 kW peak for 20 - 54 VDC supplies. DP servo drives for mobile applications are offered in a vehicle-mount, IP65-rated housing to conveniently meet the varying demands of mobile installation.

### Multiple motor types

DP servo drives can be configured to operate multiple electric motor types, including: BLDC and PMAC servo, closed-loop AC induction, closed-loop 3- stepper, PM brushed, voice coils and inductive loads. Incorporating 5V incremental encoders for feedback, DP servo drives can be configured to support various operating modes, allowing them to be used to control torque, speed or position in a variety of automated mobility applications. This makes the DP servo drives an excellent alternative to both hydraulic and pneumatic motion control solutions.

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## Seamlessly integrated

**LTI Motion's ServoOne servo drives now available with POWERLINK interface**

ServoOne servo drives from the manufacturer LTI Motion are now available with a POWERLINK interface. The high bandwidth of the real-time network allows for high-performance implementation of centralized control concepts with ServoOne drives.

The multi-axis ServoOne system is energy efficient and serves a broad range of applications with its modular design. There are 7 different axis controllers available with nominal currents ranging from 2 to 450 amps. Complemented by the corresponding power supply units, OEMs are able to put together the perfect solution for any application.

### Seamlessly integrated

LTI servo drives are seamlessly integrated in POWERLINK networks using a device profile – independently of the control system used – so OEMs enjoy maximum freedom in the selection of their automation components.



LTI Motion's ServoOne servo drives are now available with a POWERLINK interface.

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