

Downloadable Paper on CANopen and Device Profiles for I/O Modules, Motion Control

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The ultimate goal of CANopen is to provide OEMs and end users a certain level of manufacturer independence by providing standard device profiles for a continuously increasing number of controls and applications.

CANopen is an industrial networking technology based on the serial bus system "Controller Area Network" (CAN), which connects a master device with numerous slave devices such as digital I/O, analog I/O, motion controllers, encoders, sensors, actuators, etc. Developed originally for passenger cars, the CAN two-wire bus system is already in use in millions of industrial devices all over the world. In contrast to other field-bus technologies, CAN/CANopen was specifically designed for real-time control and maximum reliability, which made it very suitable for time critical tasks, for instance, motion control. The ultimate goal of CANopen is to provide OEMs and end users a certain level of manufacturer independence by providing standard device profiles for a continuously increasing number of controls.

Wilfred Voss, president of esd electronics, Inc. (<http://www.esd-electronics.us>), has written a paper that will provide an overview of the CANopen specification (DS-301, DSP-302) and will explore in more detail the device profiles for generic I/O modules (DS-401), drives and motion control (DSP-402), and IEC 61131-3 programmable devices (DS-405).

To view and download the paper please log on to:

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For further detailed technical information, please see also our publication "Embedded Networking with CAN and CANopen" at:

<http://www.copperhillmedia.com/CANopenBook.html>

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