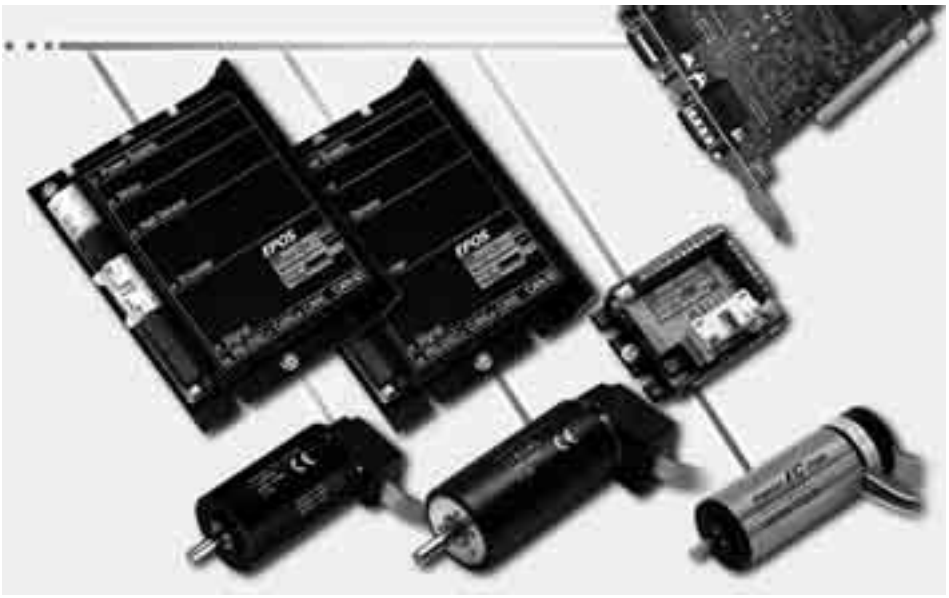
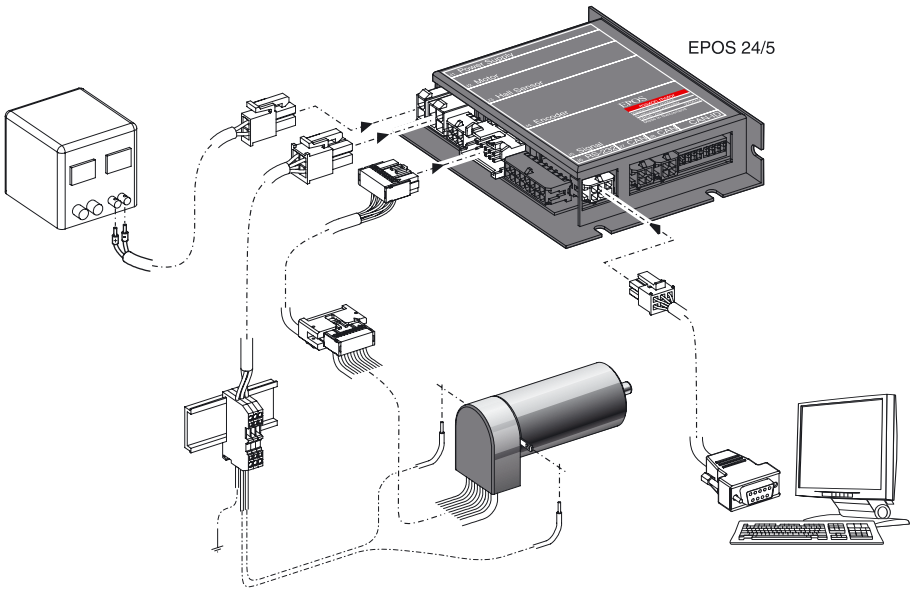
EPOS Positioning Control Units



Advantages	Features
• Digital	Digital position-, speed- and current-control
• Flexible, modular	Versions for brush and brushless DC drives, from the smallest micro-drive up to 700 Watt motors.
• Extendable	Networking of up to 127 drive units in one CAN Bus
• Easy start-up procedure	Cable available. Numerous prepared IEC-1131 libraries for CAN Master units, Windows DLL for RS232 and PC-CAN card with several programming examples, support through Graphical User Interface, start-up wizard, diagnosis help, automatic regulator turning.
• Standardised	CANopen standard CiA DS-301 and DS-402 Broad spectrum of controllers, I/O modules and controllers of third-party suppliers available that can easily be used with EPOS.
• Excellent price / performance ratio	Cutting-edge technology helps provide wide-ranging sophisticated functionality, sinusoidal commutation for the lowest torque ripple in EC motors. Motor chokes are already built into EPOS.



Function description

EPOS is a modular-designed digital positioning system suitable for DC and EC motors with incremental encoder. The performance range of these compact positioning controllers starts at a few watts and goes up to 700 W.

A variety of operating modes means that all kinds of drive and automation systems can be flexibly assembled using positioning, speed and current regulation. The built-in CANopen interface allows networking to multiple axis drives, with additional I/O modules and online commanding by CAN Bus master units.

- CANopen profile position-, profile velocity- and homing mode
- Position-, velocity- and current-mode
- Sinusoidal or trapezoid path generator
- Velocity and acceleration feed forward
- Digital position reference by Pulse/ Direction or master encoder
- Sinusoidal or Trapezoid Commutation for EC motors
- Smart multi-purpose digital I/O's configurable as: Positive and negative limit switches, Home switch, Brake output
- General purpose digital I/O's and analogue inputs
- Communication through CAN and/or RS-232
- Gateway RS232 to CAN
- Windows-based Graphical User Interface for set-up, start-up and auto-tuning

Extensive software assistance and a Graphic User Interface support the start-up procedure, regulator adjustment and adapting to the PC world or other CANopen equipment.

Available documentation and software

- Getting Started
- Cable Starting Set
- Hardware Reference
- Graphical User Interface (GUI)
- Windows DLL
- IEC1131 Libraries
- Firmware Specification
- Communication Guide
- Application Notes
- Application Samples

Cable accessories (option)

A comprehensive range of cables is available as an option.
Details can be found on page 275.