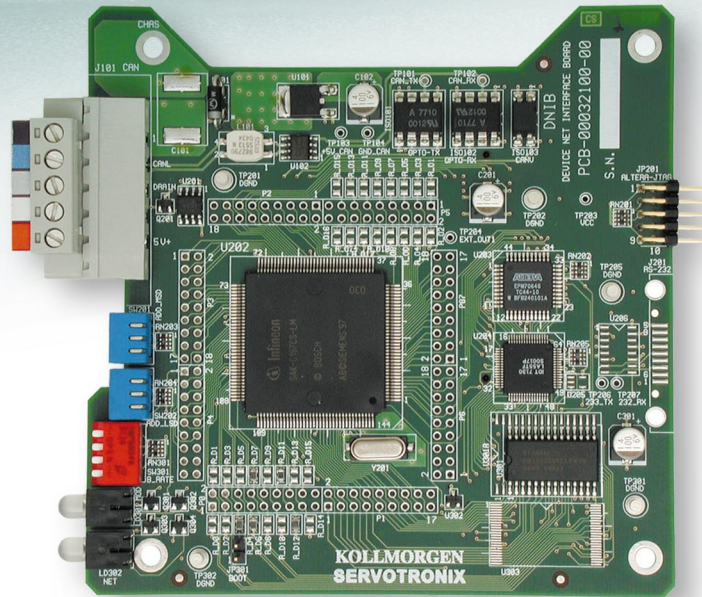




DeviceNET Interface Board

Description

The DeviceNET Interface Board (DNIB) is an add-on board for the ServoSTAR™ CD series servo amplifiers, that enables the CD to interface to a DeviceNET Master. It was developed originally for an OEM that already used the CD, but wanted to standardize on DeviceNET communications in the machine. The DNIB now joins the *Danaher Motion Specialty Electronic Products* family of Motion Building Blocks, ready for use in new applications.



Integration in the ServoSTAR™ CD

The DNIB is mounted on top of the CD's control board. The connector and switches appear on the top of the drive, as shown in the picture below.



KOLLMORGEN
Servotronics
A Danaher Motion company

SEP SPECIALTY
ELECTRONIC
PRODUCTS

Tel: +972-3-9273800
Fax: +972-3-9228075
E-mail: sep@kollmorgen.com



DeviceNET Interface Board

Capabilities

The DNIB implements DeviceNET device type 0x10 (Position Controller). Positioning is achieved with a controlled motion profile, with the motion profile being defined by acceleration, velocity, deceleration and position. Within the Position Controller device type, the device supports a number of objects that enable it to achieve it's Position Controller function. The following table shows the Position Controller objects. Additional device types can easily be added to meet your application's requirements. A complete list of supported objects is available upon request.

DeviceNET Class Code	Object Class Definition	Description
0x01	Identity Object	This object provides identification of and general information about the device.
0x02	Message Router	The Message Router Object provides a messaging connection point through which a Client may address a service to any object class or instance residing in the physical device.
0x03	DeviceNET Object	The DeviceNet Object provides the configuraion and status of a DeviceNet port.
0x04	Assembly	The Assembly Object binds attributes of multiple objects, which allows data to or from each object to be sent or received over a single connection.
0x05	Connection Object	Manages the explicit and I/O messages.
0x24	Position Controller Supervisor	The position controller supervisor handles errors for the position controller as well as Home and Registration inputs.
0x25	Position Controller	The position controller object performs the control output velocity profiling and handles input and output to and from the motor drive unit, limits switches, registration etc.
0x26	Block Sequencer Object	This object handles the execution of Command Blocks or Command Block chains.
0x27	Comand Block Object	Each instance of the Command Block object defines a specific command. These blocks can be linked to other blocks to form a command block chain.

Ordering Information

300V ServoSTAR™ CD with DeviceNET	Cx	yy	5z4
600V ServoSTAR™ CD with DeviceNET	Cx	06	664

Where

x = {E, R, B} (Encoder, Resolver or Sine Encoder Feedback respectively)

yy = {03, 06 10} (continuous current rating)

z = {5 or 6} (source of logic power: 5 - internal from main power; 6 - external)