YASKAWA
The Drive for Quality™

Service Note: DeviceNet Communications when using an A-B 1756-DNB series C and D Modules with a 1756-EtherNet/IP Module as a Gateway

Allen-Bradley 1756-DNB series C and D DeviceNet modules.

DeviceNet Options: CM059, SI-N3
AC Drives: V7N

Overview:

- Yaskawa Electric America Engineering and Quality Control groups have discovered an error when accessing a DeviceNet network using an EtherNet/IP module as a gateway in the Allen-Bradley 1756 line of PLCs. When communicating with DeviceNet devices through the EtherNet/IP gateway, all parameters and registers with an address LSB of 0x00 return the *not enough data* error. If the parameter or register attribute is 0x00, the 1756-DNB series C and D modules with firmware versions of 11.002 or earlier strip off the attribute and use the first data byte as the attribute. This leaves only one byte of data with the DeviceNet option expecting two bytes.

- The Allen-Bradley 1756-DNB series A and B modules do not show this error.

- The Allen-Bradley 1756-DNB series C and D modules with firmware version 11.003 or later do not show this error.

- This condition exists only when accessing the DeviceNet network through an EtherNet/IP gateway. Explicit messaging by the PLC program does not exhibit this condition.

Products Affected:

- Yaskawa CM059, SI-N3 & V7N

- Allen-Bradley 1756-L## PLCs with 1756-EtherNet/IP module and a 1756-DNB series C and D modules with 11.002 or older firmware.

Resolution:

- Update the 1756-DNB series C and D modules to firmware version 11.003 or later.

- The firmware and associated programming software may be obtained from the Rockwell Automation web site with the appropriate login.

http://support.rockwellautomation.com/ControlFlash/