

Drive Firmware download support for the Kollmorgen CD drive DSP Rev-G

Release note: 05012007CDSN

Date: Jan, 5th, 2007

Other reference numbers:

MPI Version release 03.04.02, announced by MEI release note number MPI 2010, from 22 November 2006

<http://support.motioneng.com/Downloads-Notes/Release/MPI/030400/03.04.04.htm#2010>

Ember file: The ember file that works with MPI 03.04.02 is **ember_ver311_D281x.a00**. This file is renamed to "Kollmorgen_ember.a00" in the MPI installation. It appears in the XMP\BIN folder of the MPI installation.

Type: Bug fix of a known problem

Description:

Since 2006, the Kollmorgen drive [CD](#) has new DSP Revision G from TI. These drives do not require different firmware from previous drives. However the method by which firmware is downloaded to the drive has changed, and thus different software tools are required for downloading drive firmware.

At present, FW can be downloaded to a Rev G [CD](#) drive via SynqNet, only with MPI revision 03.04.02. The MPI 03.04.02 will perfectly work also with CD SN drives with older DSP Revisions (C, E).

Note that CD drives with Rev G DSP can be used without any problem in systems that use MPI versions previous to 03.04.02. The issue relates **only** to the downloading of the drive DSP firmware.

There is no issue with downloading the SynqNet FPGA runtime image to these drives.

Identifying the DSP Revision

The DSP revision can be identified only by querying the drive version over the RS232 serial communications link. Connect a null-model serial communications cable to connector C1, and then use either MotionLink or SEPLink to connect to the drive. Issue the "VER" query. The response from the drive will include the DSP revision.

Downloading DSP firmware to drives with Rev G DSP

When using a version of the MPI that is previous to version 03.04.02, DSP firmware can be downloaded only over the RS232 serial communications link, using dedicated software. This software is called IGNITE. Complete instructions on how to download firmware over the serial port can be found in the following application note: ***Kollmorgen SynqNet Drives - Firmware Download over RS232.doc***

Obtaining the Firmware Download Software Tools

The Ignite firmware, and associated Ember file, can be downloaded from the Danaher Motion website. Go to www.danahermotion.com, and then following the following path:

- Click on "Documents".
- Select: Drives -> Servo (AC) -> CD Series -->CD SynqNet
- Click on the "Software/Firmware" tab
- Click on "CD SynqNet Ignite Firmware Download utility"

A screen shot appears below:

