

140CPUx341XA – Non-Unity firmware

v1.01C (q5rv101C.bin) 6/29/00

Initial release for the "A" version controllers.

Supports ladder logic & IEC for use w/Concept v2.2 SR2.

v1.02B (q5rv102B.bin) 9/15/00

a) I/O modules in the backplane slot 7 not being recognized

b) MB port lockups when radio modems are used.

Supports ladder logic & IEC for use w/Concept v2.1 b2.1.

v1.02C (q5rv102C.bin) 9/15/00

a) I/O modules in the backplane slot 7 not being recognized

b) MB port lockups when radio modems are used.

Supports ladder logic & IEC for use w/Concept v2.2 SR2.

v1.04D (q5rv104D.bin) 12/7/01

a) Addresses the problem of MSTR blocks causing scan time increases when enabled

b) Contains the IEC for use w/ Concept v2.5 SR2.

Supports IEC & ladder logic.

v1.05D (q5rv105D.bin) 4/9/02

Addresses the problem of keyswitch program transfers to standby PLCs not working in HSBY systems.

Use w/Concept v2.5 SR2. Supports IEC & ladder logic.

PRODUCT ADVISORY: IEC HSBY users NOTE attached e1396.doc

Exec v1.09D (q5rv109D.bin) 1/6/03

addresses problems of Concept v2.5 IEC HSBY section data not being transferred properly.

Supports IEC & ladder logic.

Exec v1.23E (q5rv123E.bin) 7/30/03

Addresses a v1.20 exec issue where registers 406000-406512 were non-zero after downloading an empty Concept project & performing a power cycle. Additionally, 21CFR11 functionality introduced in v1.20 is maintained, plus an issue w/MSTR Get Remote Stat is addressed.

Supports IEC & ladder logic. Use w/Concept v2.6, ProWORX & Modsoft.

Exec v1.24E (q5rv124E.bin) 11/25/03

Addresses the problem of the command register keyswitch override (disable) bit not working if the non-transfer area started at address 448 or higher.

Supports IEC & ladder logic. Use w/Concept v2.6, ProWORX & Modsoft.

Exec v1.26E (q5rv126E.bin) 12/14/04

Addresses the problem of the password feature not working if Modsoft or PROWORX were used. A password protected PLC w/this exec installed now prevents connection to any programming tool.

Supports IEC & ladder logic.

Use w/Concept v2.6, ProWORX & Modsoft.

Exec v1.28E (q5rv128E.bin) 01/13/05

Addresses the problem in HSBY systems of disabled/forced ON coil states not being maintained in the Standby unit

Supports IEC & ladder logic.

Use w/Concept v2.6, ProWORX & Modsoft.

Exec v1.29E (Q5rv129e.bin) 04/05

- a) The status bit in PLC-Status Word 1 (0004h) now indicates ?Logged In? status as TRUE when panel software connects w/a Log In command. If any software connects without a Log In command (e.g Concept in Read Only mode) the Login Status bit will remain FALSE.
 - b) If the option Last Value was selected in Peer Cop, I/O module ACTIVE LEDs in a DIO drop would not illuminate after a power cycle. Health bits showed the modules as OK & Input registers held the old input value. The only way to get the I/O module ACTIVE LEDs to work properly was to stop the CPU in the local rack & then start it again.
 - c) When the local I/O drop was used w/a rack expander (two local racks) & the Exec Loader was used to "Query" the CRP for its executive version, outputs in the expanded rack turned on momentarily.
 - d) Possible CPU crashes when XMIT was used.
 - e) CPUs crashed during download of an improper IBS configuration that included an NOA622 & a DEA202.
 - f) Possible CPU crash when downloading changes if Defragmentation was enabled.
- Supports IEC & ladder logic.
Use w/Concept v2.6, ProWORX & Modsoft.

Exec v1.30E (Q5rv130E.bin) 08/05

This exec addresses the problem of PLC protected memory section writes being allowed when the write request was done via NOM MB+ ports. Supports IEC & ladder logic.
Use w/Concept v2.6, ProWORX & Modsoft.

Exec v1.31E (Q5rv131e.bin) 10/05

- a) the problem of system bit "First Cycle" not working when a PLC start was initiated using the keyswitch.
 - b) An LTE compare 984LL Equation Network solve issue.
- Supports IEC & ladder logic. Use w/Concept v2.6, ProWORX & Modsoft.

Exec v1.32E (q5rv132e.bin) 7/06

- a) The situation where CPU s halted & displayed an error after starting an application which contained a LL984 Equation network & part of a ?: contained a negative constant.
 - b) the problem of the RUN LED not going out on a PLC stop that was caused by an RIO failure Supports IEC & ladder logic.
- Use w/Concept v2.6, ProWORX & Modsoft.

v1.33E (q5rv133e.bin) 6/07

- a) addresses the problem of a PLC search using ProWORX NxT resulting in an "unknown" state of the 140NOM21100 when connected over a 174CEV20040 bridge,
 - b) Introduces a new MB+ function "Physical Read of 32 Bit Flat Memory", Function Code 126, Sub-Function 72 (48 H),
 - c) addresses errors or kernel crashes that could occur when reading On-Line events after a download change while defragmentation was active.
- Supports IEC & ladder logic. Use w/Concept v2.6, ProWORX & Modsoft.

v1.35E (q5rv135e.bin) 9/07

- a) removed a gap that existed between the time defragmentation was finished & animation could be started,
 - b) Addressed Stop Code 0004 errors that could occur after download changes of mixed IEC & LL984 applications,
 - c) Addressed a problem introduced by Concept 2.6SR2 that sometimes caused a Stop Code 0004 or kernel crash when modified sections in a download change contained huge amounts of variables.
- Supports IEC & ladder logic.
Use w/Concept v2.6, ProWORX & Modsoft.

v1.36E (q5rv136e.bin) 12/07

This exec adds function block SAVE_AC.
Supports IEC & ladder logic.
Use w/Concept v2.6, ProWORX & Modsoft.

v1.37E (q5rv137e.bin) 3/08

This exec addresses the problem of 140HLI34000 interrupts not working in all module backplane slot combinations. (IEC logic only).

Supports IEC & ladder logic.

Use w/Concept v2.6, ProWORX & Modsoft.

v1.38E (q5rv138e.bin)

a) Used in conjunction w/the 140NOM2xx00 exec v2.21 addresses the problem of NOM s crashing after a power cycle. This occurs if it is configured w/a large DIO link & other option modules are adjacent to it in the backplane.

b) Addresses the "UDS service to PLC during failed" error message that occurred during download if included uploaded object names contained lower case characters.

Supports IEC & ladder logic.

Use w/Concept v2.6, ProWORX & Modsoft.

v1.39E (q5rv139e.bin) 6/1/2008

This exec addresses:

a) NOM & NOE connection & download errors when using specific configurations.

b) IEC Interrupt section misoperation if the HLI module is mounted on the CPU?s left side.

c) The rare occasion when after downloading IEC logic changes via an NOE, the CPU will start but freezes outputs. After time the CPU stops w/a Logic Checksum error displayed.

Supports IEC & ladder logic.

Use w/Concept v2.6, ProWORX & Modsoft.

v1.41E (q5rv141e.bin) Concept 2.6 SR6 8/2009

A cyclic Checksum validation of the IEC application added in this EXEC

Correction of the Stopcode 0004 during Download Changes if Defragmentation is enabled.

v1.44E (q5rv144e.bin) Concept 2.6 SR7 11/2011

A new IEC checksum calculation added during runtime (If there is an inconsistency in the IEC application storage structure, the PLC stops with Stop Code 0004).

Correction added if Defragmentation is enabled and during a BIG Download Changes