



ASIC/2 Firmware Release Note



APPLIES TO ASIC/2-7540, ASIC/2-8540
LAST REVISED 2007-08-08

ASIC/2-7540 FW754a2.2 (2007-06-08)

ASIC/2-8540 FW854a2.2 (2007-06-08)

- Fixes problem in sending or receiving Remote Point messages or receiving Notify messages that infrequently caused errors in Calculated Point or other objects. Also fixes problem with download errors when loading new configuration.
- Fixes 17-MGR Manager Function Average Word value when Average Word value is greater than 65535. Now computes average correctly and displays number of values used.
- Fixes problem with Notify Log. Self Posts would overwrite System Bus posts.

WHAT HAS CHANGED

Customers have reported infrequent but random errors in Calculated Point and other objects. For example: The Calculated Point would give an erroneous result for one calculation time. The Encode object would show and incorrect Stage Status Value for one second. These problems only occurred in the presence of Remote Point traffic. Customers have also reported download errors when loading a new configuration. We have identified an underlying problem with Remote Point and Notify communications and have fixed it.

Special Note: If you are using Remote Point or Notify messages on system bus we recommend upgrading to FW754a2.2 or FW854a2.2 or later.

Note: If you choose not to upgrade firmware, the download error work-around is to load the configuration a second time.

Two other minor bugs with Poll Manager and Notify Log have also been corrected. No new features or parameters have been added.

STEPS TO COMPLETE UPGRADE



Download and update FW754a2.2 (or FW854a2.2) from the integrator center, and update the controller using FlashDev. If you are upgrading from FW754a1.5 (or FW854a1.5) or later you do not need to reload the application files. You should also update to the latest asic2.mdb.

ASIC/2-7540 FW754a2.1 (2007-03-23)

ASIC/2-8540 FW854a2.1 (2007-03-26)

- Adds Decimal Fraction value to Function Float-to-Integer calculation

WHAT HAS CHANGED

By customer request we have added the decimal fraction value to the Function object, 32-bit floating point to integer conversion. The Decimal Fraction is displayed in units of 0.0001.

STEPS TO COMPLETE UPGRADE



Download and update FW754a2.1 (or FW854a2.1) from the integrator center, and update the controller using FlashDev. Update to the latest asic2.mdb file and add the Decimal Fraction parameter to the Function object Float-to-Integer screen.

ASIC/2-7540 FW754a2.0 (2007-02-08)

ASIC/2-8540 FW854a2.0 (2007-02-08)

- Fixes an intermittent issue of controller reset associated with system to local bus pass-thru.
- Updates ASIC/2-7540 Power-up Health Test sequence of lights.
- Fixes calculation overflow for PWM, Modulated, and Tristate Outputs.
- Boiler OAT Reset now works for negative Outside Air Temperatures.
- Fixes DAK Parameter 2_Byte download to Logic object.
- Adds 7540 USB/Ethernet support for USB200M Version 2.
 - USB Ethernet Device = 1. Hawking HUF11 & HUF20, LinkSYS USB100M
 - USB Ethernet Device = 2. LinkSYS USB200M Version 2

Reset Bug Fix

WHAT HAS CHANGED

- A subtle bug has been fixed which caused the controller to occasionally reset when using both system to local bus pass-thru and Remote Points.

Several customers reported problems that were traced back to the controller resetting when there was a lot of communication traffic. The controller would spontaneously reset, zeroing data, turning lights and equipment off until the sequence restarted. The reset was triggered by the presence of response messages being passed back from the local bus to the system bus and remote point or other traffic on the system bus. It has been present in all versions of ASIC/2-7540 and ASIC/2-8540 controllers.

Special Note: If you are doing pass-thru from system to local bus we firmly recommend upgrading to FW754a2.0 or FW854a2.0 or later.

STEPS TO COMPLETE UPGRADE



Download and update FW754a2.0 (or FW854a2.0) from the integrator center, and update the controller using FlashDev.

If you are upgrading from FW754a1.5 (or FW854a1.5) or later you do not need to reload the application files. If you are updating earlier firmware you must reload the application file after upgrade.

ASIC/2-8540 FW854a1.8 (2006-10-20)

- Only Updates ASIC/2-8540 Firmware to match the production ETH-8540 Ethernet Adapter.

STEPS TO COMPLETE UPGRADE



Download and update FW854a1.8 or later from the integrator center, and update the controller using FlashDev.

See Technical Note 33, ASIC/2-8540 Ethernet Adapter for further information.

ASIC/2-7540 FW754a1.7 (2006-09-05)

ASIC/2-8540 FW854a1.7 (2006-09-05)

- Fixes Notify Log rollover problem that self posted twice to instance 0.
- Fixes minor bug in Alarm object for COS/Fault which always used ALR Attr-11 Trigger Attribute - Hi/Lo Alarm, rather than ALR Attr-13 Trigger Attribute - COS/Fault
- ASIC/2-7540 adds periodic reset of USB port if no communication.
- ASIC/2-8540 adds support for ETH-8540 Ethernet Adapter which uses the IP Setup parameters from System Object and adds ETH-8540 Enable and Status. See Technical Note TN-35, ASIC/2-8540 Ethernet Adapter for details.

Note: The ETH-8540 is in prototype and not yet available.

STEPS TO COMPLETE UPGRADE



Download and update FW754a1.7 (or FW854a1.7) from the integrator center, and update the controller using FlashDev.

If you are upgrading from FW754a1.5 (or FW854a1.5) or later you do not need to reload the application files. If you are updating earlier firmware you must reload the application file after upgrade.

ASIC/2-7540 FW754a1.6 (06/09/2006)

ASIC/2-8540 FW854a1.6 (06/12/2006)

- Fixes a problem with Remote Point Originate that caused occasional output overrides.

Remote Point Bug Fix

WHAT HAS CHANGED

- A subtle bug has been fixed that affects controllers that are using originate Remote Points.

When a large number of Remote Points are originating from an ASIC/2-7540 or ASIC/2-8540 controller, unexpected Binary Output overrides can occasionally occur. Only one customer has reported this behavior. This customer was using up to 60 Remote Points. It was usually OUT-01 that was overridden, but occasionally OUT-00. These overrides could occur in firmware versions 1.5 and earlier, and they sometimes correct themselves after a few minutes. Upgrading the firmware to version 1.6 fixes this problem. We have not identified any other side-effects caused by this bug.