



# PEX 8508 AC

## Programmable Revision ID

### Design Note

June 13, 2007  
Version 1.0

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## Purpose and Scope

This document describes the feature for programming the device Revision ID on the PEX8508AC. The Revision ID field reflects the current silicon revision. However, in order to minimize software migration efforts, a programmable Revision ID field is implemented in the PEX8508AC switch.

## 1 Description

The feature behavior is as follows:

- PEX8508AC without Serial EEPROM
  - PEX8508 AC Revision ID field loads with default value
  - Default value for revision ID field is 0xACh
- PEX8508AC with Serial EEPROM
  - PEX8508AC loads configuration information from the serial EEPROM
  - Bits [2:1] on Revision ID field are reversed
  - Loading a value of 0xACh via the serial EEPROM results in a programmed value of 0xAAh on the device Revision ID field
  - Loading a value of 0xAAh via the serial EEPROM results in a programmed value of 0xACh on the device Revision ID field
- Programming a value, other than “0xAAh” or “0xACh” via the serial EEPROM, results in the incorrect silicon revision ID.

|             | EEPROM Value<br>for Revision ID | Register Read for<br>Revision ID field |
|-------------|---------------------------------|----------------------------------------|
| Revision ID | 0xACh                           | 0xAAh                                  |
|             | 0xAAh                           | 0xACh                                  |

## 2 Summary

- This feature is automatically enabled when using a serial EEPROM
- When using the serial EEPROM, one must load a value of 0xAAh in order to program a value of 0xACh on the Revision ID field of the PEX8508AC

## 3 Reference Documents

- PEX 8508 Databook - <http://www.plxtech.com/8508>
- PEX 8508 EEPROM Application Note - <http://www.plxtech.com/8508>