# AM1808 Pre-Release Processor Silicon Designation
## White Paper 437

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## Abstract

This White Paper explains the disclaimers associated with Texas Instruments' pre-release AM1808 microprocessor silicon. This evaluation silicon is represented by an "X" in the TI part number and, subsequently, an "X" in the Logic model numbers of SOMs and Development Kits built with pre-release silicon.

## Revision History

| REV | EDITOR | DESCRIPTION | APPROVAL | DATE |
|-----|--------|-------------|----------|------|
| A | JCA | Initial release | JCA | 04/06/10 |

# 1 Introduction

Texas Instruments (TI) has allowed Logic to provide pre-release AM1808 microprocessor silicon to customers purchasing evaluation System on Modules (SOMs). These SOMs will be distinguishable from full production versions by the "X" immediately preceding the processor name in the model number.

Section 2 of this document quotes TI's disclaimer associated with the XAM1808 sample parts.

Section 3 of this document lists the Logic model numbers built with XAM1808 sample parts.

# 2 TI Description of "X" Designation

The following paragraphs are from Section 1.1 of the TI document, *AM1808 ARM Microprocessor Silicon Revisions 2.0 and 1.1 Silicon Errata* (literature number SPRZ313):

Device development evolutionary flow:

**X**      Experimental device that is not necessarily representative of the final device's electrical specifications.

**P**      Final silicon die that conforms to the device's electrical specifications but has not completed quality and reliability verification.

**NULL**   Fully-qualified production device.

Support tool development evolutionary flow:

**TMDX**   Development-support product that has not yet completed Texas Instruments internal qualification testing.

**TMDS**   Fully qualified development-support product.

NULL and TMDS development-support tools have been characterized fully, and the quality and reliability of the device have been demonstrated fully. TI's standard warranty applies.

Predictions show that prototype devices (X or P) have a greater failure rate than the standard production devices. Texas Instruments recommends that these devices not be used in any production system because their expected end-use failure rate still is undefined. Only qualified production devices are to be used.

# 3 Logic AM1808 SOM Model Numbers

The following SOM configurations are built with TI evaluation XAM1808 microprocessor silicon and are subject to TI's disclaimer stated above.

| Model Number | Description |
|---|---|
| SOMXAM1808-10-1602AHCR | XAM1808 processor, up to 450 MHz, 128 MB Mobile DDR, 8 MB NOR flash, wired Ethernet, touch, SATA |
| SOMXAM1808-11-1602AHCR | XAM1808 processor, up to 450 MHz, 128 MB Mobile DDR, 8 MB NOR flash, wired Ethernet, touch, SATA, Power Measurement Circuitry |
| SOMXAM1808-10-1502AHCR | XAM1808 processor, up to 450 MHz, 64 MB Mobile DDR, 8 MB NOR flash, wired Ethernet, touch, SATA |

| Model Number | Description |
|---|---|
| SOMXAM1808-10-1502QHCR | XAM1808 processor, up to 450 MHz, 64 MB Mobile DDR, 8 MB NOR flash, wired Ethernet, touch, No SATA |