



# AM3517 Pre-Release Processor Silicon Designation White Paper 420

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## Abstract

This White Paper explains the disclaimers associated with Texas Instruments' pre-release AM3517 processor 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.

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## REVISION HISTORY

REV	EDITOR	DESCRIPTION	APPROVAL	DATE
A	JCA	Initial release	JCA	11/05/09

## 1 Introduction

Texas Instruments (TI) has allowed Logic to provide pre-release AM3517 processor 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 XAM3517 sample parts.

Section 3 of this document lists the Logic model numbers built with XAM3517 sample parts.

## 2 TI Description of “X” Designation

The following paragraphs are from Section 7.2.2 of the TI document, *AM3517/05 ARM Microprocessor Datasheet* (literature number [SPRS550](#)):

To designate the stages in the product development cycle, TI assigns prefixes to the part numbers of all AM35x processors and support tools. Each device has one of three prefixes: X, P, or null (no prefix). Texas Instruments recommends two of three possible prefix designators for its support tools: TMDX and TMDS. These prefixes represent evolutionary stages of product development from engineering prototypes (TMDX) through fully qualified production devices/tools (TMDS).

Device development evolutionary flow:

**X** Experimental device that is not necessarily representative of the final device’s electrical specifications and may not use production assembly flow. (TMX definition)

**P** Prototype device that is not necessarily the final silicon die and may not necessarily meet final electrical specifications. (TMP definition)

**null** Production version of the silicon die that is fully qualified. (TMS definition)  
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.

TMX and TMP devices and TMDX development-support tools are shipped against the following disclaimer:

“Developmental product is intended for internal evaluation purposes.”

Production devices 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 AM35x SOM Model Numbers

The following SOM configurations are built with TI evaluation XAM3517 processor silicon and are subject to TI's disclaimer stated above.

Model Number	Description
SOMXAM3517-10-1780RJCR	XAM3517 processor, up to 500 MHz, 256 MB DDR2, 512 MB NAND flash, wired Ethernet, 802.11b/g, Bluetooth, touch
SOMXAM3517-10-1780FJCR	XAM3517 processor, up to 500 MHz, 256 MB DDR2, 512 MB NAND flash, wired Ethernet, touch