



OMAP35x Pre-Release Processor Silicon Designation

White Paper 393

Logic // Embedded Product Solutions
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Abstract

This White Paper explains the disclaimers associated with Texas Instruments' pre-release OMAP3503 and OMAP3530 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	Jed Anderson	Initial release	KTL	09/04/08

1 Introduction

Texas Instruments (TI) has allowed Logic to provide pre-release OMAP3503 and OMAP3530 processor silicon to customers purchasing evaluation System on Modules (SOMs). These SOMs will be distinguishable from full production versions by the “X” in the model number.

Section 2 of this document quotes TI's disclaimer associated with the XOMAP35x samples.

Section 3 of this document lists the Logic model numbers built with XOMAP35x sample parts.

2 TI Description of “X” Designation

The following paragraphs are from Section 7.2.2 of the TI document, *OMAP3515/03 Application Processor* (literature number [SPRS505B](#)):

To designate the stages in the product development cycle, TI assigns prefixes to the part numbers of all OMAP™ processors and support tools. Each OMAP 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 OMAP35x SOM Model Numbers

The following SOM configurations are built with TI evaluation XOMAP3503 and XOMAP3530 processor silicon and are subject to TI's disclaimer stated above.

Model Number	Description
SOMXOMAP3503-10-1672IFCR	XOMAP3503 processor, up to 600 MHz, 128 MB DDR, 256 MB NAND flash, 8 MB NOR flash, wired Ethernet, audio, touch, Bluetooth, 802.11
SOMXOMAP3503-10-1670HFCR	XOMAP3503 processor, up to 600 MHz, 128 MB DDR, 256 MB NAND flash, wired Ethernet, audio, touch
SOMXOMAP3530-10-1672IFCR	XOMAP3530 processor, up to 600 MHz, 128 MB DDR, 256 MB NAND flash, 8 MB NOR flash, wired Ethernet, audio, touch, Bluetooth, 802.11
SOMXOMAP3530-10-1670EFCR	XOMAP3530 processor, up to 600 MHz, 128 MB DDR, 256 MB NAND flash, audio, touch

IMPORTANT NOTE: Please be aware that SOMs shipped with TMDXMEVM3503-L Development Kits were mistakenly labeled with a model number not containing the pre-release "X" designator, even though they were built with pre-release processor silicon. All SOMs shipped with TMDXMEVM3503-L Development Kits utilize pre-release processor silicon.