

Notice Title:	<u>Product Migration from GD32F30x-UMC¹ to GD32F30x-SMIC²</u>
Notice Record Number:	GD-PCN-00222
Notice Date:	Jul. 1 st , 2021
Notice Type:	Major
Affected Product(s):	GD32F30x series

Change Subject:

GigaDevice has initiated the product GD32F30x migration from 55nm process technology to 40nm process technology as a routine product update.

GD32F30x 系列产品的工艺制程由 55nm 变更为 40nm。

Description of Change(s):

The GD32F30x is a MCU product manufactured by SMIC with 40nm process technology. It is introduced as a direct replacement product manufactured by UMC with 55nm process. The product manufactured by SMIC with 40nm process technology is designed and tested to be fully compatible with the product manufactured by UMC with 55nm process technology in terms of form, fit, function and reliability.

GD32F30x 是采用 SMIC 40nm 工艺制程的 MCU 产品，替代了 UMC 55nm 的产品。工艺制程变更前后的产品在形式、装配、功能和可靠性方面完全兼容。

Impact of Changes and Recommended Actions:

Both products have identical functionality and Device ID. The previous design with GD32F30x also applies to the new product manufactured by SMIC with 40nm process technology. For the specific difference information, please refer to the Application Note 'AN009 Differences of GD32F30x between UMC55 and SMIC40 process technology'.

变更前后的产品拥有相同的功能和型号。之前采用了 GD32F30x 的设计也适用于新产品。具体差异信息请参考应用笔记 'AN009 Differences of GD32F30x between UMC55 and SMIC40 process technology'。

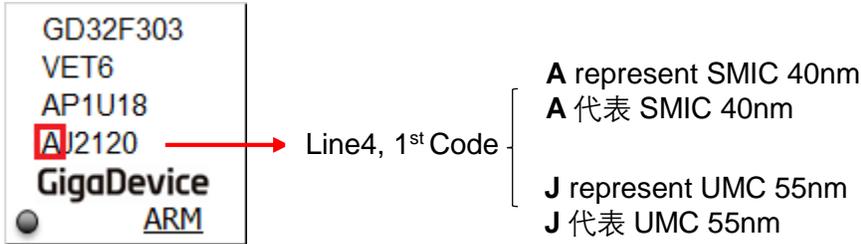
¹ UMC: 联华电子股份有限公司, 中国台湾(United Microelectronics Corporation, Taiwan, CN).

² SMIC: 中芯国际集成电路制造有限公司, 中国北京市 (Semiconductor Manufacturing International Corporation, Beijing City, CN).

The way to distinguish the product with two different process technology:

The product GD32F30x manufactured by SMIC 40nm and by UMC 55nm process technology have identical Device ID, so the 1st code on the line4 of the mark is used to define different process technology. As the picture shown below:

采用 SMIC 40nm 或 UMC 55nm 工艺制程的 GD32F30x 系列产品拥有相同的型号，芯片上丝印的第四行第一位编码用于定义不同工艺制程。如下图所示：



Production Status:

GD32F30x by SMIC with 40nm process technology:

Sample Availability	Apr. 15, 2021
Mass Production	Jul. 1, 2021

GD32F30x by UMC with 55nm process technology:

Last Order Date	Nov. 30, 2021
Last Shipping Date	Dec. 31, 2021

Revision History:

Version No	Description	Date
1.0	Initial Release	Jul.1, 2021

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