



NVIDIA Jetson Orin NX 8GB and Jetson Orin Nano series Addition of Manufacturing BOM Components: Samsung DRAM

Major Product Change Notice

PCN210361

Product Change Notification		
Change Notification Number	PCNXXXXXX	
Change Title	NVIDIA Jetson Orin NX 8GB and Jetson Orin Nano series Addition of Manufacturing BOM Components: Samsung DRAM	
Notification Date	October 10 th , 2023	Projected First Ship Date for Changed Product*

* NVIDIA uses JEDEC-JESD46 standard for guidance. Projected First Ship Date is the estimated date; actual first shipment may occur on or after this date. Shipment of changed product may occur prior to stated ship date with customer approval.

Proposed Change Information		
Description:		
Manufacturing BOM additions of new memory:	<ul style="list-style-type: none"> • Addition of Samsung Memory K3KL1L10GM-JGCT 	
Reason:	Manufacturing BOM and supply chain is being expanded to include these items for supply continuity and resiliency.	
Impact (form, fit, function, quality, or reliability):		
Form, fit, quality, or reliability:	<ul style="list-style-type: none"> • No change 	
Function:	<ul style="list-style-type: none"> • No change, assuming requirement to update software image flashed to the Jetson Orin NX 8GB, Jetson Orin Nano 8GB, or Jetson Orin Nano 4GB(See Recommended Action section below) to include: <ul style="list-style-type: none"> o Appropriate BCT and DVFS changes required by the Samsung memory device 	

Qualification Plan and Data Availability		
Qualification Plan:		
NVIDIA is committed to providing high quality products to our customers. The qualification of this revision adheres to the same stringent standards and procedures as those used for all NVIDIA products.		
Projected Qualification Data Availability Date:	November 20 th , 2023	

Method of Identifying Changed Product

Details:

Any Jetson Orin NX 8GB/ Jetson Orin Nano 8GB/ Jetson Orin Nano 4GB with 699 level part number version greater than or equal to 301 may be affected by this PCN. Each module has a label and/or 2D barcode which provides the 699 level part number.

For example, a module with 699 level part number 699-13767-0001-301, 699-13767-0003-301, or 699-13767-0004-301 may be affected.

Customers may receive mixed shipments, with 699 level part number versions less than, equal to, or greater than 301. Modules with 699 level part number versions equal to or greater than 301 may be built with the new components described in this PCN, or with the older components.

Recommended Action for Partners/Customers

To support the new Samsung DRAM, the software image flashed to the Jetson Orin NX 8GB, Jetson Orin Nano 8GB or Jetson Orin Nano 4GB must include:

- Appropriate BCT and DVFS changes required by the Samsung memory device

Jetpack 5.1.3 / BSP 35.5 or Jetpack 6.0 / BSP 36.1 or later releases of Linux for Tegra (L4T) will include the required change.

For customers using older versions of JetPack who are not able to update to the above version or later, please contact your NVIDIA support representative to discuss possibilities for patching.

Note that the new firmware is also fully compatible with the previous manufacturing BOM.

In addition to integrating the required software changes, customer should perform whatever additional qualification they deem required to validate the change.

Affected Product(s) or Ordering Codes

Production Part Number	Sample Part Number	Sample Part Number Availability Date
900-13767-0010-000	900-13767-0010-VB1	October 20 th , 2023
900-13767-0030-000	900-13767-0030-VB1	November 3 rd , 2023
900-13767-0040-000	900-13767-0040-VB1	November 17 th , 2023

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