



Product Change Notification / GBNG-23RXSF075

Date:

23-Feb-2021

PCN Type:

Manufacturing Change

Notification Subject:

Memolog # ML022021005B Final Notice: Implementation of catalog part number (CPN) convention changes to PM4xxxB Switchtec Gen 4 PCIe switches.

Notification Text:**PCN Status:**

Final notification

PCN Type:

Catalog Part Number convention change

Microchip Parts Affected:

Please open one of the icons found in the Affected CPNs section.

NOTE: For your convenience Microchip includes identical files in two formats (.pdf and .xls).

Description of Change: Implementation of catalog part number (CPN) convention changes to PM4xxxB Switchtec Gen 4 PCIe switches. Customers are requested to transition from ordering CPNs with convention PM4xxxB to order CPNs with convention PM4xxxB1.

Note: Switchtec Gen 4 PCIe switches provide a security feature which authenticates the firmware before the processor within the switch is permitted to boot (this feature is optional and can be disabled if desired). The boot loader within the PCIe switch performs that authentication and operates as designed. There are no errata associated with this feature. The PM4xxxB1 production devices add an additional feature that further protects against physical tampering by adding instructions to the bootloader. This is a minor metal change. There are no other functional changes to the PCIe switch - no changes to the SerDes, no changes to the PCIe switch IP, no changes to any core logic, no changes to the package - therefore no re-qualification nor re-characterization of the PCIe switch is required. Regression testing can be limited in scope to the secure boot loader functionality.

All maintenance firmware releases operate on both the Switchtec PCIe Gen4 PM4xxxB and PM4xxxB1 devices. Each maintenance release provides additional security benefits. Please see the firmware release notes for details found at this

link: https://pmcs.com/myPMC/download_sla.php?res_id=380251&lic_id=251

Pre Change:

PM40xxx**B**, PM41xxx**B** and PM42xxx**B** device families.

Post Change:

PM40xxx**B1**, PM41xxx**B1** and PM42xxx**B1** device families.

Pre and Post Change Summary:

	Pre Change	Post Change
Catalog Part Number	PM40100B-FEI	PM40100B1-FEI
	PM40084B-FEI	PM40084B1-FEI
	PM40068B-FEI	PM40068B1-FEI
	PM40052B-F3EI	PM40052B1-F3EI
	PM40036B-F3EI	PM40036B1-F3EI
	PM40028B-F3EI	PM40028B1-F3EI
	PM41100B-FEI	PM41100B1-FEI
	PM41084B-FEI	PM41084B1-FEI
	PM41068B-FEI	PM41068B1-FEI
	PM41052B-F3EI	PM41052B1-F3EI
	PM41036B-F3EI	PM41036B1-F3EI
	PM41028B-F3EI	PM41028B1-F3EI
	PM42100B-FEI	PM42100B1-FEI
	PM42084B-FEI	PM42084B1-FEI
	PM42068B-FEI	PM42068B1-FEI
	PM42052B-F3EI	PM42052B1-F3EI
	PM42036B-F3EI	PM42036B1-F3EI
	PM42028B-F3EI	PM42028B1-F3EI

Note: Please make efforts to transition away from the PM40xxx**B**, PM41xxx**B** and PM42xxx**B** device families prior to December 31, 2021.

Impacts to Data Sheet:

The data sheets are updated to reflect the new PM4xxx**B1** part numbers.

Change Impact:

PM4xxx**B1** production devices provide a boot loader security enhancement.

Reason for Change:

To improve the secure boot feature.

Change Implementation Status:

Completed

Estimated First Ship Date:

February 23, 2021 (date code: 2109)

NOTE: This is the first date the PM4xxx**B1** devices will be available for order.

Time Table Summary:

	February 2021			
Workweek	06	07	08	09
Final PCN Issue Date				X
Estimated Implementation Date				X

Method to Identify Change:

Traceability code and catalog part number (CPN)

Qualification Report:

Not applicable.

Revision History:

February 23, 2021: Issued final notification.

The change described in this PCN does not alter Microchip's current regulatory compliance regarding the material content of the applicable products.

Attachments:

[PCN_GBNG-23RXSF075_Affected_CPN.pdf](#)
[PCN_GBNG-23RXSF075_Affected_CPN.xlsx](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

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