

## Product Change Notification

**Document No.**                      **PCN-A-1090927**                      **Revision**                      **1.0**

**PCN TOPIC:**

Intel Pentium® Processor N4200, Intel® Celeron® N3350 Processor stepping change from B1 to F1.

**INTRODUCTION:**

Intel has confirmed that the existing B-1 stepping chips do may experience Inability to Boot or may cause operation or nonfunctioning of LPC, SD card and RTC Circuitry. However, this only observed this behavior in simulation. When the B-1 Stepping is followed to the published specifications and design guidelines, it still meets PC Client usage condition.

<b>Problem:</b>	Under certain conditions LPC, SD card and RTC circuitry may stop functioning <b>in the outer years of use.</b>
<b>Implication:</b>	Systems experiencing the LPC circuitry issue may cause operation to cease or inability to boot. Systems experiencing the RTC issue may exhibit an inability to boot or may cease operation. Systems experiencing SD card circuitry issue may cause SD cards to be unrecognized. <b>Intel has only observed this behavior in simulation.</b> Designs that implement the LPC interface at 1.8V signal voltage are not affected by the LPC issue. Systems designed with a coin cell battery are not affected by the RTC issue.

The new F-1 stepping products have fixed the LPC bus degradation issue and will be available for order for 15 years. The new PCN(<http://qdms.intel.com/dm/i.aspx/591218A9-2CBF-48D1-AA72-ED543CABF946/PCN117143-01.pdf>) is also clarify the stepping change and assuring the chips are reliable.

Winmate will start to implement the New F1 Stepping CPU in Q1,2020.The new version bios will compatible down with the previous MB. The comparison table and impact products, please refer to the below tables.

**Comparison Table:**

	Intel Celeron N3350 Processor		Intel Pentium N4200 Processor	
	B1	F1	B1	F1
<b>Pre-Conversion S-Spec of CPU</b>	B1	F1	B1	F1
<b>Post Conversion S-Spec of CPU</b>	S R2Z7	S REKH	S R2Z5	S RGVZ
<b>BIOS</b>	Current Used	New	Current Used	New
<b>IMPACT PRODUCT LIST</b>	EACIL20 EACIL21 EACIL67 FM07		M900P M101PR M101PME M101P EACIL20	

**Appendix.**

**RELEASE DATE:**September , 27,2019

**APPROVE:** **MD:**                      **EE:**                      **TE:**                      **PE:**

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APPROVE:  MD: EE: TE: PE: